Pioneer sound.vision.soul

Service Manual

ORDER NO. ARP3227

PLASMA DISPLAY PLASMA DISPLAY

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Type	Model	Power Requirement	Remarks	
Туре	PDP-505PG	Power nequirement	Hemaiks	
TLDPFR	0	AC110 - 240V		

1. CONTRAST OF MISCELLANEOUS PARTS

NOTES: ● Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.

- The \triangle mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Screws adjacent to ▼ mark on product are used for disassembly.
- Reference Nos. indicate the pages and Nos. in the service manual for the base model.
- When ordering resistors, first convert resistance values into code form as shown in the following examples.

 Ex. 1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

■ CONTRAST TABLE

PDP-505PG/TLDPFR and PDP-505PE/WYVI are constructed the same except for the following:

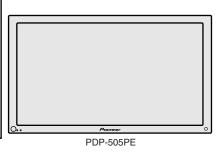
			Pa	art No.		
Ref. No.	Mark	Symbol and Description	PDP-505PE WYVI	PDP-505PG TLDPFR	Remarks	
		PACKING				
P9 - 1	<u> </u>	Power Cord	ADG1214	Not used		
P9 - 7	NSP	Warranty Card	ARY1114	Not used		
P9 - 14		Upper Carton (505PE)	AHD3265	Not used		
P9 - 14		Upper Carton (505PG)	Not used	AHD3295		
P9 - 15		Vinyl Bag	AHG1340	Not used		
		Label (50)	AAX3145	No t used		
		REAR SECTION				
P19 - 3	NSP	Name Label (505PE)	AAL2568	Not used		
P19 - 3	NSP	Name Label (505PG)	Not used	AAL2598		

2

PDP-505PG

Pioneer sound.vision.soul

Service Manual



ORDER NO. ARP3214

PLASMA DISPLAY

PDP-505PE PRO-505PU

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Model	Туре	Power Requirement	Remarks
PDP-505PE	WYVI	AC220 - 240V	
PDP-505PE	WYVIXK	AC220 - 240V	
PRO-505PU	KUC	AC120V	



For details, refer to "Important symbols for good services".

PIONEER CORPORATION 4-1, Meguro 1-chome, Meguro-ku, Tokyo 153-8654, Japan PIONEER ELECTRONICS (USA) INC. P.O. Box 1760, Long Beach, CA 90801-1760, U.S.A. PIONEER EUROPE NV Haven 1087, Keetberglaan 1, 9120 Melsele, Belgium PIONEER ELECTRONICS ASIACENTRE PTE. LTD. 253 Alexandra Road, #04-01, Singapore 159936 © PIONEER CORPORATION 2004

SAFETY INFORMATION



This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual. Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING

This product contains lead in solder and certain electrical parts contain chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm.

Health & Safety Code Section 25249.6 - Proposition 65

NOTICE

(FOR CANADIAN MODEL ONLY)

Fuse symbols (fast operating fuse) and/or (slow operating fuse) on PCB indicate that replacement parts must be of identical designation.

REMARQUE

(POUR MODÈLE CANADIEN SEULEMENT)

Les symboles de fusible - (fusible de type rapide) et/ou - (fusible de type lent) sur CCI indiquent que les pièces de remplacement doivent avoir la même désignation.

SAFETY PRECAUTIONS

NOTICE: Comply with all cautions and safety related notes located on or inside the cabinet and on the chassis.

The following precautions should be observed:

- 1. When service is required, even though the PDP UNIT an isolation transformer should be inserted between the power line and the set in safety before any service is performed.
- 2. When replacing a chassis in the set, all the protective devices must be put back in place, such as barriers, nonmetallic knobs, adjustment and compartment covershields, isolation resistor-capacitor, etc.
- When service is required, observe the original lead dress. Extra precaution should be taken to assure correct lead dress in the high voltage circuitry area.
- 4. Always use the manufacture's replacement components. Especially critical components as indicated on the circuit diagram should not be replaced by other manufacture's. Furthermore where a short circuit has occurred, replace those components that indicate evidence of overheating.
- 5. Before returning a serviced set to the customer, the service technician must thoroughly test the unit to be certain that it is completely safe to operate without danger of electrical shock, and be sure that no protective device built into the set by the manufacture has become defective, or inadvertently defeated during servicing. Therefore, the following checks should be performed for the continued protection of the customer and servicetechnician.

- 6. Perform the following precautions against unwanted radiation and rise in internal temperature.
- Always return the internal wiring to the original styling.
- Attach parts (Gascket, Ferrite Core, Ground, Rear Cover, Shield Case etc.) surely after disassembly.
- 7. Perform the following precautions for the PDP panel.
- When the front case is removed, make sure nothing hits the panel face, panel corner, and panel edge (so that the glass does not break).
- Make sure that the panel vent does not break. (Check that the cover is attached.)
- Handle the FPC connected to the panel carefully.
 Twisting or pulling the FPC when connecting it to the connector will cause it to peel off from the panel.
- 8. Pay attention to the following.
- When the front case is removed, infrared ray is radiated and may disturb reception of the remote control unit.
- Pay extreme caution when the front case and rear panel are removed because this may cause a high risk of disturbance to TVs and radios in the surrounding.

PDP-505PE

Leakage Current Cold Check

5

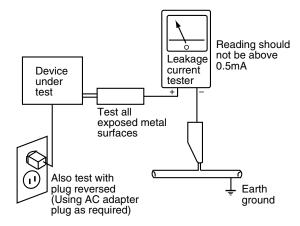
With the AC plug removed from an AC power source, place a jumper across the two plug prongs. Turn the AC power switch on. Using an insulation tester (DC 500V), connect one lead to the jumpered AC plug and touch the other lead to each exposed metal part (input/output terminals, screwheads, metal overlays, control shafts, etc.), particularly any exposed metal part having a return path to the chassis. Exposed metal parts having a return path to the chassis should have a minimum resistor reading of $0.3M\Omega$ and a maximum resistor reading of $5M\Omega$. Any resistor value below or above this range indicates an abnormality which requires corrective action. Exposed metal parts not having a return path to the chassis will indicate an open circuit.

Leakage Current Hot Check

Plug the AC line cord directly into an AC power source (do not use an isolation transformer for this check).

Turn the AC power switch on.

Using a "Leakage Current Tester (Simpson Model 229 equivalent)", measure for current from all exposed metal parts of the cabinet (input/output terminals, screwheads, metal overlays, control shaft, etc.), particularly any exposed metal part having a return path to the chassis, to a known earth ground (water pipe, conduit, etc.). Any current measured must not exceed 0.5mA.



AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE SET TO THE CUSTOMER.

PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in PIONEER set have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a \triangle on the schematics and on the parts list in this Service Manual.

The use of a substitute replacement component which dose not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

3

8

D

Ε

■ Charged Section

The places where the commercial AC power is used without passing through the power supply transformer.

If the places are touched, there is a risk of electric shock. In addition, the measuring equipment can be damaged if it is connected to the GND of the charged section and the GND of the non-charged section while connecting the set directly to the commercial AC power supply. Therefore, be sure to connect the set via an insulated transformer and supply the current.

- 1. AC Power Cord
- 2. AC Inlet with Filter
- 3. Power Switch (S1)
- 4. Fuse (In the POWER SUPPLY Unit)
- 5. STB Transformer and Converter Transformer (In the POWER SUPPLY Unit)
- 6. Other primary side of the POWER SUPPLY Unit

■High Voltage Generating Point

The places where voltage is 100V or more except for the charged places described above. If the places are touched, there is a risk of electric shock.

1. POWER SUPPLY Unit	(223V)
2. 50 X DRIVE Assy	(-230V to 223V)
3. 50 Y DRIVE Assy	(353V)
4. 50 SCAN A Assy	(353V)
5. 50 SCAN B Assy	(353V)
6. X CONNECTOR AAssy	(-230V to 223V)
7. X CONNECTOR B Assy	(-230V to 223V)

Discharge the VSUS voltage, as shown below:

[Method for discharging the VSUS voltage]

- 1. Set DRF_SW on the DIGITAL VIDEO Assy to ON (Drive OFF status). *1. 2
- 2. Leave the switch at that position for about 20-30 seconds.
- 3. If the power is on, turn it off. Then return DRF_SW to the OFF position. *3

Notes

- *1: You can also set the unit to "Drive OFF status" by sending the "DRF" RS232C command from the PC.
- *2: DRF_SW can be switched whether the power is on or off.
- *3: Power-down will occur if DRF_SW is set to OFF while the power is on. (See "7.1.6 Power on/off function for the large-signal system".)

: Part is Charged Section.

: Part is the High Voltage Generating Points other than the Charged Section.

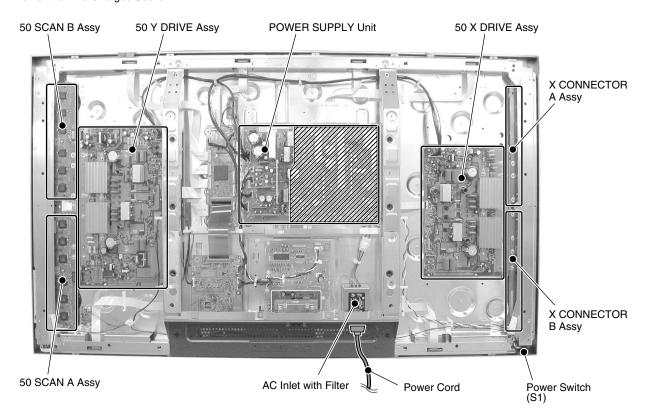


Fig.1 Charged Section and High Voltage Generating Point (Rear View)

4

PDP-505PE

2

3

In this manual, procedures that must be performed during repairs are marked with the below symbol. Please be sure to confirm and follow these procedures.

1. Product safety

5



Please conform to product regulations (such as safety and radiation regulations), and maintain a safe servicing environment by following the safety instructions described in this manual.

① Use specified parts for repair.

Use genuine parts. Be sure to use important parts for safety.

Do not perform modifications without proper instructions.

Please follow the specified safety methods when modification(addition/change of parts) is required due to interferences such as radio/TV interference and foreign noise.

3 Make sure the soldering of repaired locations is properly performed.

When you solder while repairing, please be sure that there are no cold solder and other debris. Soldering should be finished with the proper quantity. (Refer to the example)

4 Make sure the screws are tightly fastened.

Please be sure that all screws are fastened, and that there are no loose screws.

⑤ Make sure each connectors are correctly inserted.

Please be sure that all connectors are inserted, and that there are no imperfect insertion.

6 Make sure the wiring cables are set to their original state.

Please replace the wiring and cables to the original state after repairs. In addition, be sure that there are no pinched wires, etc.

Make sure screws and soldering scraps do not remain inside the product.

Please check that neither solder debris nor screws remain inside the product.

® There should be no semi-broken wires, scratches, melting, etc. on the coating of the power cord.

Damaged power cords may lead to fire accidents, so please be sure that there are no damages. If you find a damaged power cord, please exchange it with a suitable one.

There should be no spark traces or similar marks on the power plug.

When spark traces or similar marks are found on the power supply plug, please check the connection and advise on secure connections and suitable usage. Please exchange the power cord if necessary.

10 Safe environment should be secured during servicing.

When you perform repairs, please pay attention to static electricity, furniture, household articles, etc. in order to prevent injuries. Please pay attention to your surroundings and repair safely.

2. Adjustments



To keep the original performance of the products, optimum adjustments and confirmation of characteristics within specification. Adjustments should be performed in accordance with the procedures/instructions described in this manual.

3. Lubricants, Glues, and Replacement parts



Use grease and adhesives that are equal to the specified substance. Make sure the proper amount is applied.

4. Cleaning



For parts that require cleaning, such as optical pickups, tape deck heads, lenses and mirrors used in projection monitors, proper cleaning should be performed to restore their performances.

5. Shipping mode and Shipping screws

5



To protect products from damages or failures during transit, the shipping mode should be set or the shipping screws should be installed before shipment. Please be sure to follow this method especially if it is specified in this manual.

PDP-505PE

8

5

В

C

D

Ε

F

CONTENTS

	SAFETY INFORMATION	2
	1. SPECIFICATIONS	
	2. EXPLODED VIEWS AND PARTS LIST	
Α	2.1 PACKING	
	2.2 CHASSIS SECTION (1)	
	2.3 CHASSIS SECTION (2)	
	2.4 FRAME SECTION	
	2.5 MULTI BASE SECTION	
	2.6 REAR SECTION	18
	2.7 FRONT SECTION	
	2.8 PANEL CHASSIS (50) Assy (AWU1092)	
	2.9 PDP SERVICE Assy 505P (AWU1097)	
	3. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM (Refer to "Service Manual: ARP3215")	
В	3.1 BLOCK DIAGRAM	22
Ь	3.1.1 OVERALL BLOCK DIAGRAM	
	3.1.2 50 Y DRIVE ASSY	
	3.1.3 50 X DRIVE ASSY	
	3.1.4 PANEL IF ASSY	26
	3.1.5 DIGITAL VIDEO ASSY	31
	3.1.6 HD AUDIO AMP ASSY	33
	3.2 WAVEFORMS	34
	4. PCB CONNECTION DIAGRAM (Refer to "Service Manual: ARP3215")	
	5. PCB PARTS LIST	38
	6. ADJUSTMENT	46
С	6.1 ADJUSTMENT REQUIRED WHEN THE SET IS REPAIRED OR REPLACED	46
•	6.2 DRIVE ASSY ADJUSTMENT	47
	6.3 COMMAND	48
	6.3.1 RS232C COMMAND	48
	6.4 METHOD FOR REPLACING THE SERVICE PANEL ASSY	56
	7. GENERAL INFORMATION	57
	7.1 DIAGNOSIS	57
	7.1.1 PCB LOCATION	57
	7.1.2 DIAGNOSIS OF SHUTDOWN/POWER-DOWN INDICATED BY LEDS	58
	7.1.3 DIAGNOSIS WITH THE AID OF FACTORY MODE	
	7.1.4 OPERATION WHEN THE MEDIA RECEIVER IS NOT CONNECTED	65
D	7.1.5 TEMPERATURE-COMPENSATION FUNCTION OF THE DRIVE-SYSTEM VOLTAGE	
	7.1.6 POWER ON/OFF FUNCTION FOR THE LARGE-SIGNAL SYSTEM	66
	7.1.7 BACKUP WHEN THE MAIN UNIT IS ADJUSTED	67
	7.1.8 TROUBLESHOOTING	
	7.1.9 DISASSEMBLY	71
	7.2 IC INFORMATION	75
_	8. PANEL FACILITIES	101

Е

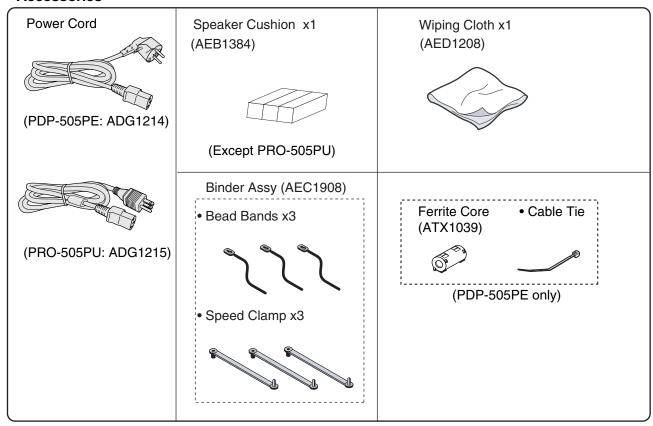
1. SPECIFICATIONS

50" Plasma Display

Item	Model: PDP-505PE
Number of Pixels	1280 x 768 pixels
Audio Amplifier	13 W + 13 W (1kHz, 10%, 8Ω)
Surround System	SRS/FOCUS/TruBass
Power Requirement	220-240V AC,50/60Hz,352W (0.4W Standby)
Dimensions	1270(W) x 737 (H) x 93 (D) mm
Weight	32.8 kg (72.3 lbs.)

Item	Model: PRO-505PU
Number of Pixels	1280 x 768 pixels
Audio Amplifier	13 W + 13 W (1kHz, 10%, 8Ω)
Surround System	SRS/FOCUS/TruBass
Power Requirement	120V AC,60Hz,363W (0.2W Standby)
Dimensions	1270(W) x 737 (H) x 93 (D) mm (44 ¹ /8(W)x 25 ¹¹ / ₁₆ (H)x 3 ⁷ / ₈ (D)inches)
Weight	32.8 kg (72.3 lbs.)

Accessories



7

В

С

D

Ε

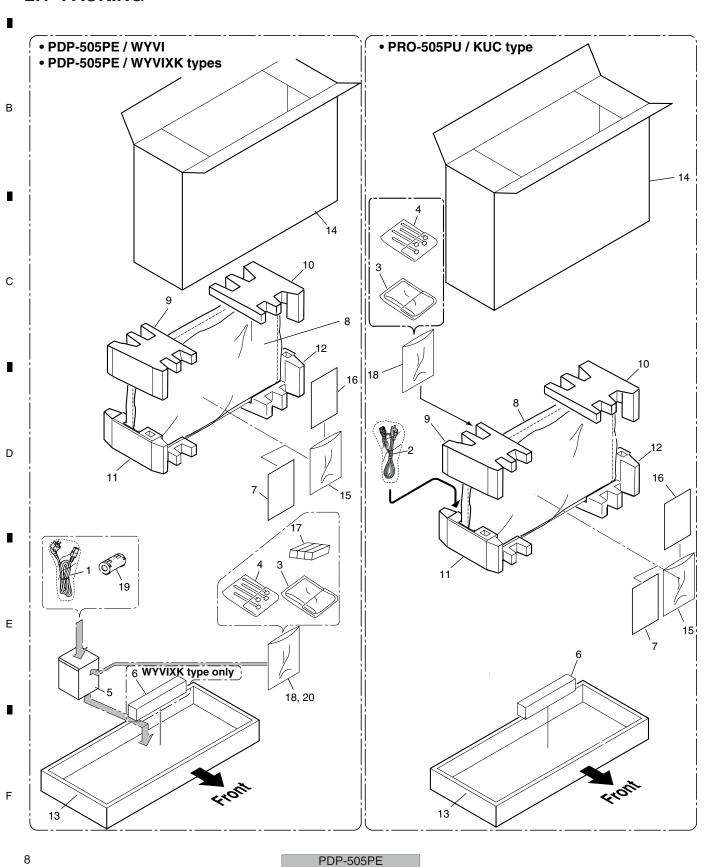
2. EXPLODED VIEWS AND PARTS LIST

NOTES: ● Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.

- Screws adjacent to **▼** mark on product are used for disassembly.
- For the applying amount of lubricants or glue, follow the instructions in this manual. (In the case of no amount instructions, apply as you think it appropriate.)

2.1 PACKING

Α



PACKING Parts List

Mark No.		<u>Description</u>	Part No.	Mark No.	<u>Description</u>	Part No.
<u> </u>	1	Power Cord	See Contrast table (2)	11	Pad	See Contrast table (2)
<u>^</u> 2		Power Cord See Contrast table (2)	12	Pad	See Contrast table (2)	
	3	Wiping Cloth Binder Assy Code Case AED1208 AEC1908 See Contrast table (2)		13	Carton (50)	See Contrast table (2)
	4			14	Upper Carton	See Contrast table (2)
	5		15	Vinyl Bag	See Contrast table (2)	
	6	Center Pad (50)	See Contrast table (2)	16	Caution Card	ARM1232
NSP	7	Warranty Card See Contrast table (2)	17	Speaker Cushion	See Contrast table (2)	
	8	Mirror Mat	See Contrast table (2)	18	Vinyl Bag S	See Contrast table (2)
	9	Pad	` '	19	Ferrite Core	See Contrast table (2)
	10	Pad	See Contrast table (2)	20	Poly Bag	See Contrast table (2)

(2) CONTRAST TABLE

PDP-505PE/WYVIXK, PRO-505PU/KUC and PDP-505PE/WYVI are constructed the same except for the following :

Mark	No.	Symbol and Description	PDP-505PE WYVI	PDP-505PE WYVIXK	PRO-505PU KUC
<u> </u>	1	Power Cord	ADG1214	ADG1214	Not used
<u> </u>	2	Power Cord	Not used	Not used	ADG1215
	5	Code Case	AHC1041	AHC1049	Not used
	6	Center Pad (50)	Not used	AHA2335	Not used
NSP	7	Warranty Card	ARY1114	ARY1114	ARY1134
	8	Mirror Mat	AHG1284	AHG1327	AHG1284
	9	Pad (50T-L)	AHA2366	Not used	AHA2366
	9	Pad (T-L)	Not used	AHA2381	Not used
	10	Pad (50T-R)	AHA2367	Not used	AHA2367
	10	Pad (T-R)	Not used	AHA2382	Not used
	11	Pad (50B-L)	AHA2368	Not used	AHA2368
	11	Pad (B-L)	Not used	AHA2383	Not used
	12	Pad (50B-R)	AHA2369	Not used	AHA2369
	12	Pad (B-R)	Not used	AHA2384	Not used
	13	Carton (50)	AHD3177	AHD3191	AHD3177
	14	Upper Carton (505PE)	AHD3265	Not used	Not used
	14	Upper Carton (50)	Not used	AHD3271	Not used
	14	Upper Carton (50EL)	Not used	Not used	AHD3281
	15	Vinyl Bag	AHG1340	Not used	AHG1340
	17	Speaker Cushion	AEB1384	AEB1384	Not used
	18	Vinyl Bag S	AHG1338	Not used	AHG1338
	19	Ferrite Core	ATX1039	ATX1039	Not used
	20	Poly Bag	Not used	AHG1326	Not used

9

В

D

Ε

3 2.2 CHASSIS SECTION (1) 8 30 23-31 3 / 31 10 27 /22 11 27 12 27 22 13 27 34 14 34 22 19 20 28 7 17 / 27 15 16 27 18 31 31 3 31 23 23 9 28 33 33 33 33 33 33 33 3333 25 26 26 25 26 Upper side Upper side

10

Е

Α

CHASSIS SECTION (1) parts List							
Mark No.	<u>Description</u>	Part No.					
1	DIGITAL VIDEO Assy	AWV2074					
NSP 2	P. Chassis (505) Assy	AWU1092					
NSP 3	50 ADDRESS Assy	AWZ6870					
NSP 4	50 SCAN A Assy	AWZ6878					
NSP 5	50 SCAN B Assy	AWZ6879					
NSP 6	X CONNECTOR A Assy	AWZ6880					
NSP 7	X CONNECTOR B Assy	AWZ6881					
8	PANEL SENSOR Assy	AWZ6872					
9	KEY CONTROL Assy	AWZ6844					
10	FPC (114P)	ADY1088					
11	Flexible Cable (J201)	ADD1248					
12	Flexible Cable (J202)	ADD1249					
13	(/	ADD1250					
14	(/	ADD1251					
15	Flexible Cable (J205)	ADD1252					
16	` '	ADD1253					
17	,	ADD1254					
18	Flexible Cable (J208)	ADD1255					
19	Flexible Cable (J209)	ADD1270					
20	Flexible Cable (J210)	ADD1271					
21	••••						
22	Flat Clamp	AEC1879					
23	PCB Spacer	AEC1941					
24	PCB Support	AEC1938					
25	PCB Spacer	AEC1944					
26	PCB Support	AEC1958					
27	Wire Saddle	AEC1745					
28	PCB Spacer	AEC1947					
29	Wire Clip	AEC1948					
30	Nylon Rivet	AEC1671					
31	Screw	VBB30P080FNI					
32	Screw	ABZ30P060FTC					
33	Screw	PMB30P060FNI					
34	Rear corner label	AAX3081					

35 Card Spacer

5

11

В

С

D

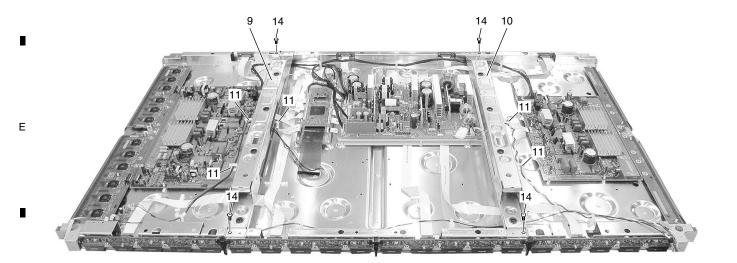
Ε

PDP-505PE

AEC2013

Upper side

В С



Upper **→**

CHASSIS SECTION (2) parts List

Mark No.		Description	Part No.
<u> </u>	1	POWER SUPPLY Unit	AXY1085
	2	50 X DRIVE Assy	AWZ6877
	3	50 Y DRIVE Assy	AWV2082
	4	Wire A (J101)	ADX2945
	5	11P Housing Wire (J102)	ADX2950
	6	12P Housing Wire (J103)	ADX2951
	7	9P Housing Wire (J106)	ADX2949
	8	3P Housing Wire (J109)	ADX2948
	9	SUB Frame L Assy (50P)	ANG2638
	10	SUB Frame R Assy (50P)	ANG2561
	11	Wire Saddle	AEC1745
	12	Screw	PMB30P060FNI
	13	Screw	ABZ30P060FTC
	14	Screw	AMZ30P080FTC
	15	Screw	VBB30P080FNI

В

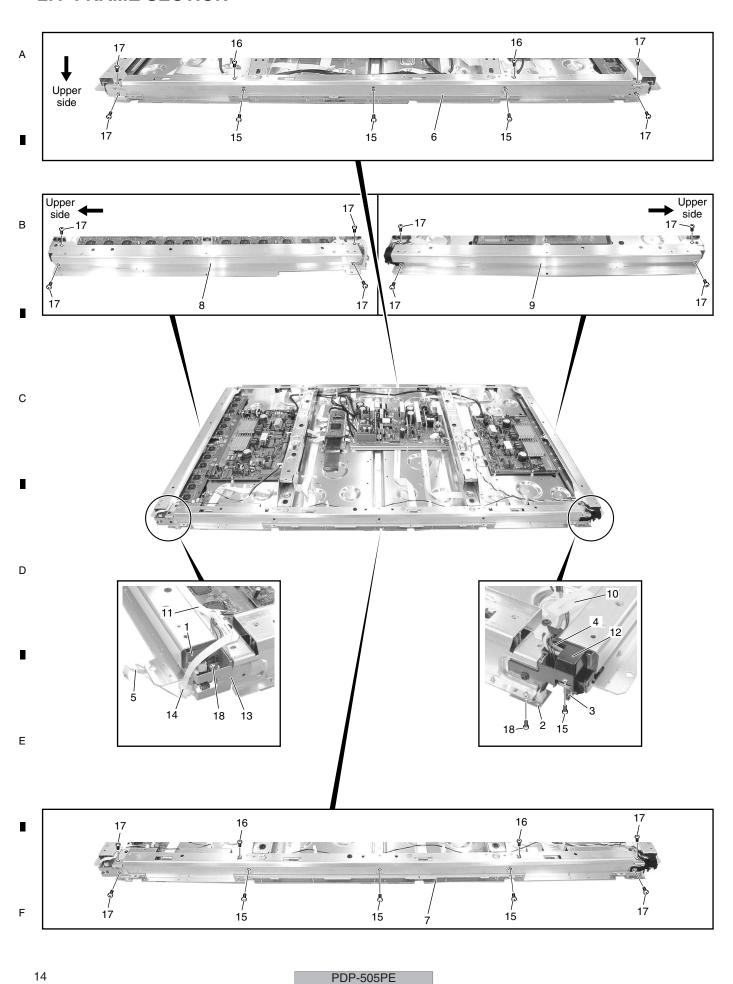
C

ח

Е

F

2.4 FRAME SECTION



		5	6	-	7	8	
FRAI	ЛE S	SECTION parts List					
<u>Mark</u>	No.	<u>Description</u>	Part No.				
	1	PANEL IR Assy	AWZ6845				
	2	PANEL LED Assy	AWZ6842				Α
<u> </u>	3	Power Switch (S1)	ASG1092				
	4	Housing Wire (50)(J110)	ADX2964				
	5	Flexible Cable (J211)	ADD1225				
	6	Front Chassis HU Assy (50)	ANA1792				_
	7	Front Chassis HD Assy (50)	ANA1793				
	8	Front Chassis VL (50)	ANA1794				
	9	Front Chassis VR (50)	ANA1795				
	10	Clamp	AEC1884				
	11	Flat Clamp	AEC1879				В
	12	Switch Holder	AMR3402				
	13	IR Holder	ANG2665				
	14	Wire Clip	AEC1948				
	15	Screw	BPZ30P080FTB				
	16	Screw	AMZ30P080FTC				
	17	Screw	AMZ30P060FTB				
	18	Screw	ABZ30P060FTC				
							0
							С

D

Ε

F

15

PDP-505PE

8

Α

В

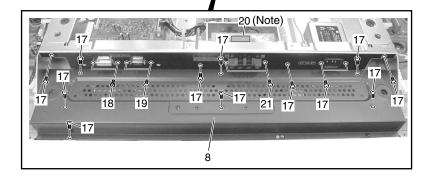
С

D

Ε

• Back side 12 (Note) 12 (Note) Note: The No. 12 parts must be inserted from the front surface. 12 (Note) (Note) Front side <u>1</u>6 11 15 15 20 (Note)

Note: When servicing, be sure to glue on the Gasket (AU) and make sure that they won't peel off.



16

MULTI	BASE	SECTION	parts List

<u>Mark</u>	<u>No.</u>	<u>Description</u>	Part No.
	1	PANEL IF Assy	AWZ6841
	2	HD AUDIO AMP Assy	AWZ6863
	3	HD SP TERMINAL Assy	AWZ6864
<u> </u>	4	AC Inlet (CN1)	AKP1263
	5	3P/8P Housing Wire (J104)	ADX2922
	6	13P Housing Wire (J105)	ADX2947
	7	Multi Base (P) Assy	ANA1786
	8	Under Cover Assy	ANG2589
	9	Locking Card Spacer V0	AEC2005
	10	••••	
	11	Clamp	AEC1884
	12	PCB Spacer	AEC1941
	13	HL 18	AEC1980
	14	SB Spacer	AEC2002
NSP	15	Wire Saddle	AEC1745
	4.0		DMDooDoooFall
	16	Screw	PMB30P060FNI
	17	Screw	AMZ30P060FTB
	18	Hexagon Headed Screw	BBA1051
	19	Screw	PMZ26P060FTB
	20	Gasket (AU)	ANK1745
	21	Screw	BPZ30P080FTB

Ε

E

F

18

_

REAR SECTION parts List

Mark No.	<u>Description</u>	Part No.	Mark No.	<u>Description</u>	Part No.	
1	Rear Case (50P)	ANE1626	6	Screw	ABZ30P100FTB	
2	Inner Grip Assy	AMR3434	7	Serial Sheet	AAX3143	Α
NSP 3	Name Label	See Contrast table (2)	8	Screw	AMZ30P060FTB	
4	Volt caution Label	See Contrast table (2)				
5	Terminal Label	See Contrast table (2)				

(2) CONTRAST TABLE

PDP-505PE/WYVIXK, PRO-505PU/KUC and PDP-505PE/WYVI are constructed the same except for the following :

Mark	No.	Symbol and Description	PDP-505PE WYVI	PDP-505PE WYVIXK	PRO-505PU KUC	
NSP	3	Name Label	AAL2568	AAL2580	AAL2570	
	4	Volt Caution Label	AAX3117	AAX3005	AAX3117	
	5	Terminal Label	AAX2998	AAX3006	AAX2997	

19

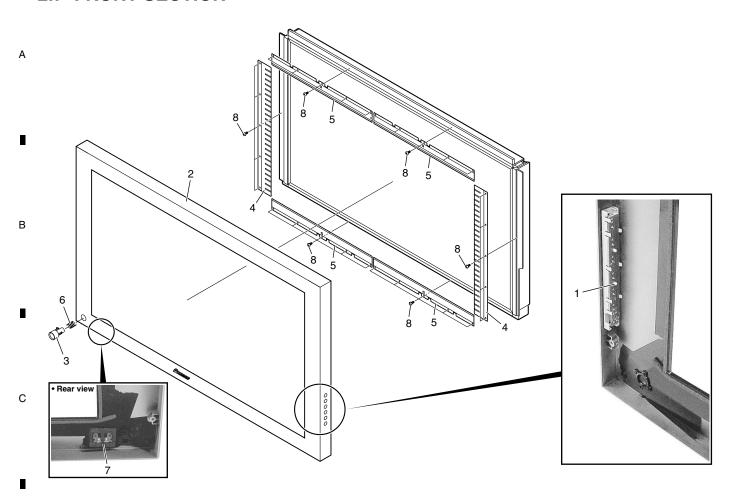
В

С

D

Ε

2.7 FRONT SECTION



FRONT SECTION parts List

5 Panel Holder H Assy 50

	-				
Mark No.	Description	Part No.	Mark No.	Description	Part No.
1	PANEL KEY Assy	AWZ6843	6	Coil Spring	ABH1114
2	Front Case Assy	See Contrast table (2)	7	Blind Cushion	AEB1383
3	Power Button	AAD4127	8	Screw	ABZ30P060FTC
NSP 4	Panel Holder V (50)	ANG2663			

(2) CONTRAST TABLE

PDP-505PE/WYVIXK, PRO-505PU/KUC and PDP-505PE/WYVI are constructed the same except for the following :

Mark	No.	Symbol and Description	PDP-505PE WYVI	PDP-505PE WYVIXK	PRO-505PU KUC
	2	Front Case Assy (50PE)	AMB2834	AMB2834	Not used
	2	Front Case Assy (50EL)	Not used	Not used	AMB2836
	5	Panel Holder H Assy 50	ANG2678	Not used	ANG2678
	5	Panel Holder H	Not used	ANG2662	Not used
	5	Gasket	Not used	ANK1740	Not used

See Contrast table (2)

20

Ε

2

PDP-505PE

•

Mark No.	<u>Description</u>	Part No.	Mark No.	<u>Description</u>	Part No.	
NSP	150 ADDRESS Assy	AWV2080		Rivet (Plastic)	AMR1066	Α
NSP	250 ADDRESS Assy	AWZ6870		FC Spacer	AMR3370	
NSP	150 SCAN Assy	AWV2083				
NSP	250 SCAN A Assy	AWZ6878	NSP	Adhesive	ZBA-KE3424S	
NSP	250 SCAN B Assy	AWZ6879	NSP	Lotion	ZLX-AP7	
NSP	2X CONNECTOR A Assy	AWZ6880	NSP	Tape	ZTA-8101-12	
NSP	2X CONNECTOR B Assy	AWZ6881	NSP	Double Faced Tape	ZTB-5015-18	_
			NSP	Silicone Rubber	ZTC-EM7KB0R85T-15W	
NSP	P. Panel (50LC) Assy	AWU1103				
NSP	Adress Module (IC1-IC40)	AXF1129	NSP	Tape	ZTC-POLYCA-20	
NSP	FPC (50XGA-X)	ADY1084	NSP	Tape	ZTC-900UL-15	_
NSP	FPC (50XGA-Y)	ADY1085	NSP	Silicone Rubber	ZTX-HC20-15	В
NSP	Chassis Assy (505)	ANA1803	NSP	Silicone Rubber	ZTX-HC50-15	
			NSP	Wiping Cloth	ZTX-MX100-13	
	PCB Spacer	AEC1944				
	PCB Support	AEC1958	NSP	Film	ZTX-2102Y35-2R5	
	Edge Card Spacer	AEC1998	NSP	Film	ZTX-2102Y45-5	

2.9 PDP SERVICE Assy 505P (AWU1097) PDP SERVICE Assy 505P (AWU1097) parts List

<u>MarkNo.</u>	<u>Description</u>	<u>Part No.</u>
NSP	1P.Chassis (505) Assy	AWU1092
	1Front Chassis HU Assy (50)	ANA1792
	1Front Chassis HD Assy (50)	ANA1793
	1Front Chassis VL (50)	ANA1794
	1Front Chassis VR (50)	ANA1795
	1Sub Frame L Assy (50P)	ANG2638
	1Sub Frame R Assy (50P)	ANG2561
	1Wire Saddle	AEC1745
	1PCB Support	AEC1938
	1PCB Spacer	AEC1941
	1PCB Spacer	AEC1947
	1Wire Clip	AEC1948
	1Card Spacer	AEC2013
	1Caution Label	AAX3031
	1Drive Voltage Label	ARW1097
	1Screw	ABZ30P100FTB
	1Screw	AMZ30P060FTB
	1Screw	AMZ30P080FTC
	1Screw	VBB30P080FNI
	1Screw	BPZ30P080FTB
NSP	1Front Case Assy (50SVC)	AMB2849
	2Panel Cushion H (50)	AED1257
	2Panel Cushion V (50)	AED1258
NSP	2Front Case (50P)	AMB2823
	1Rear Case (50P)	ANE1614
NSP	1Vinyl Pouch	AHG-195
	1Pad (50T-L)	AHA2366
	1Pad (50T-R)	AHA2367
	1Pad (50B-L)	AHA2368
	1Pad (50B-R)	AHA2369
	1Carton(50)	AHD3177
	1Upper Carton (505SVC)	AHD3290
	1Protect Sheet	AHG1331
	1Rear corner label(15)	AAX3081

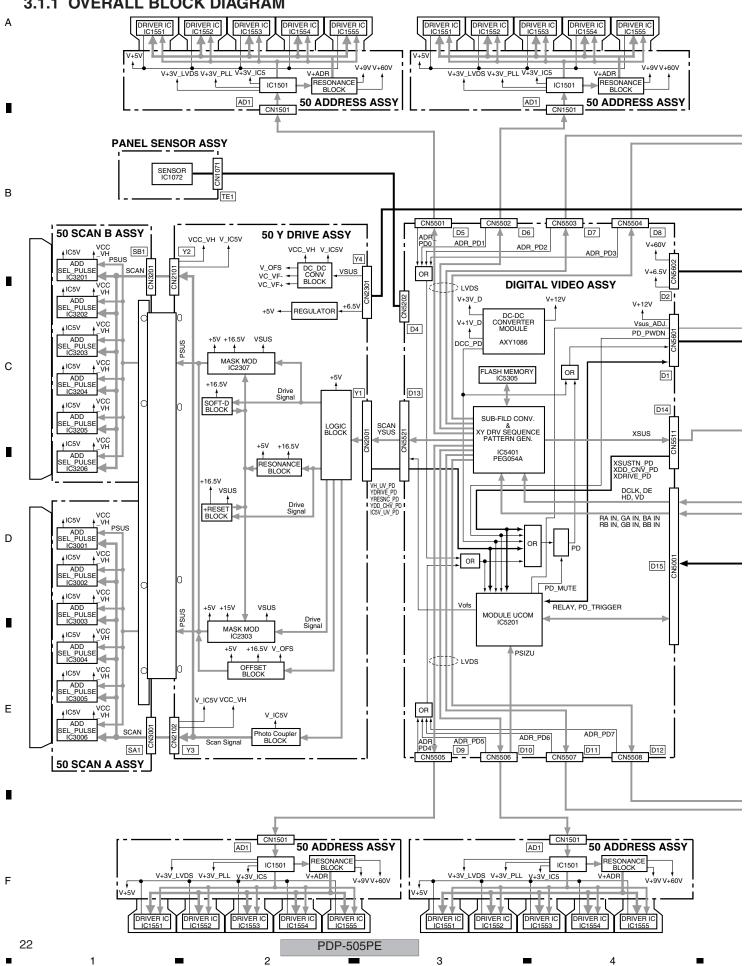
21

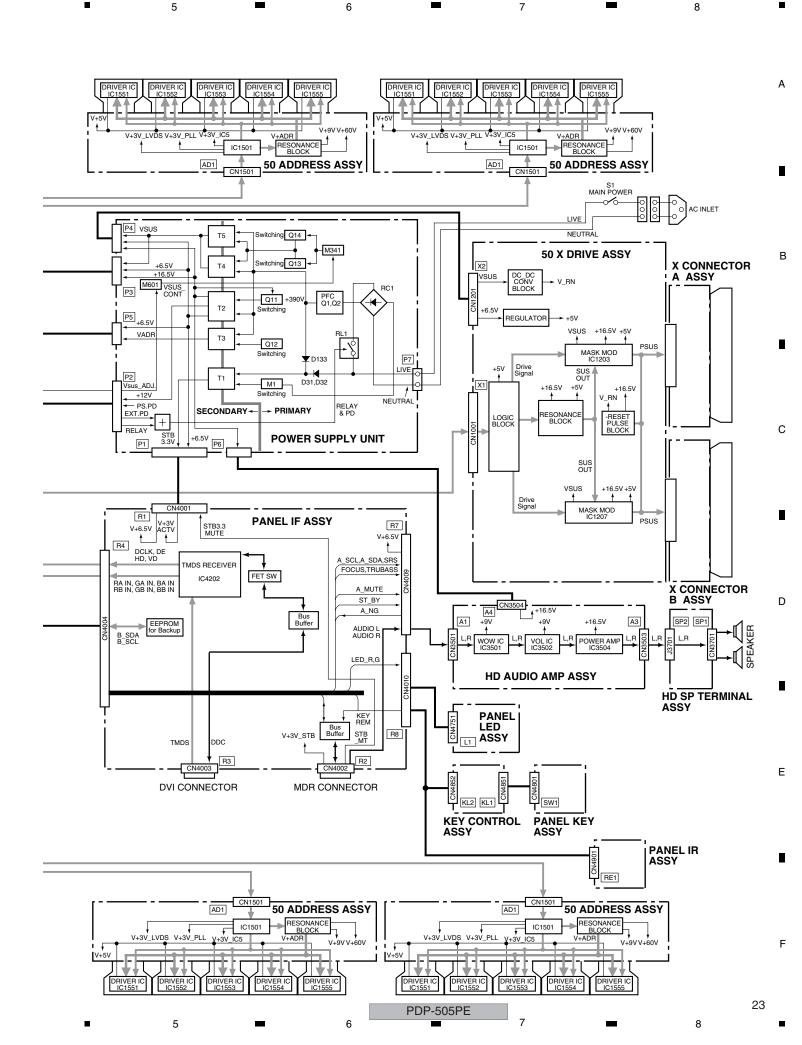
Ε

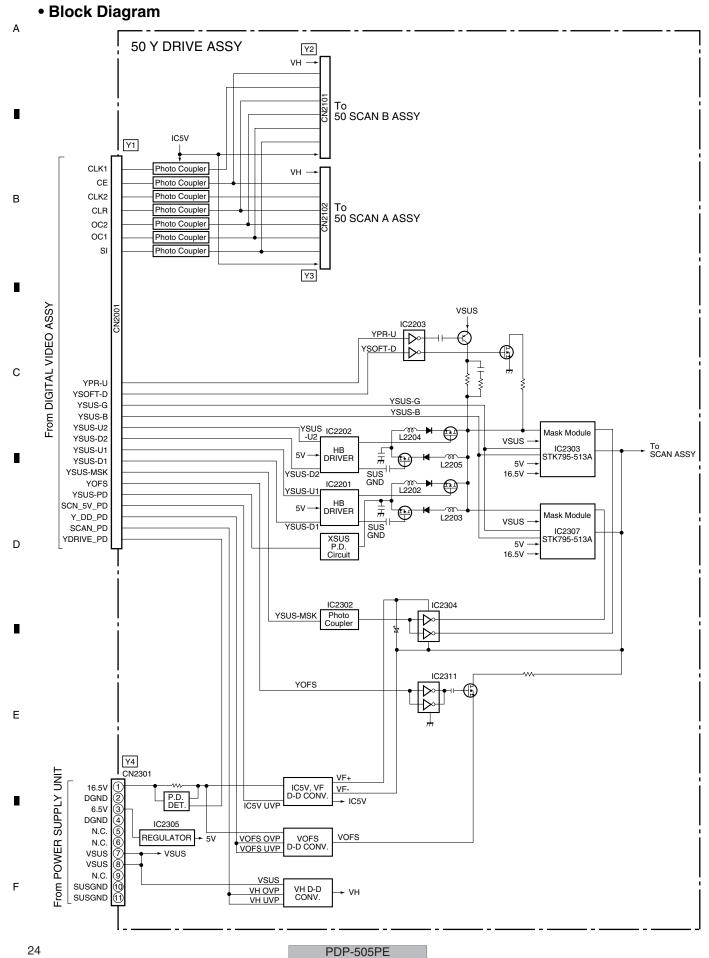
3. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM

3.1 BLOCK DIAGRAM

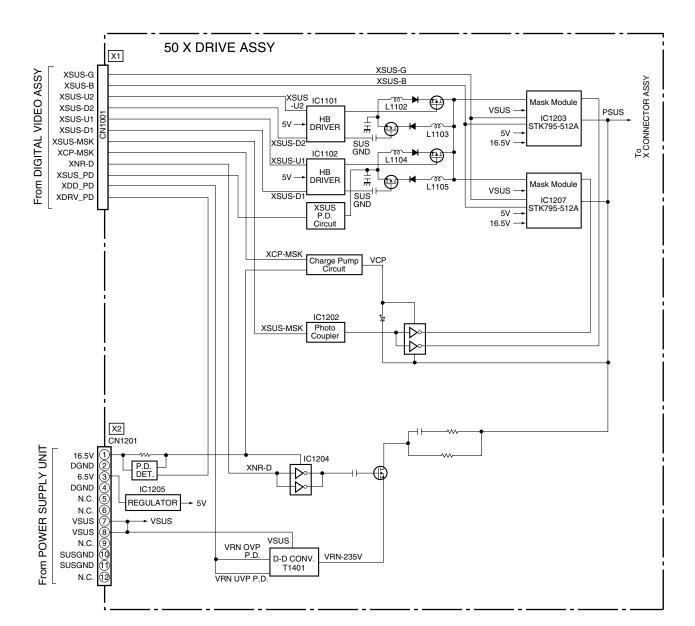








Block Diagram



25

8

В

С

D

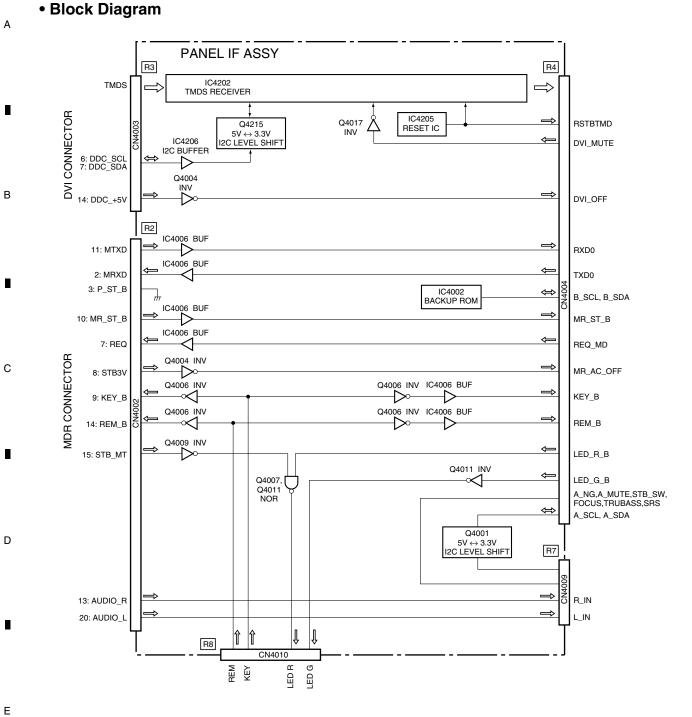
Е

PDP-505PE

7

-

3.1.4 PANEL IF ASSY



PDP-505PE

Voltages

CN4001 (R1) < ⇔ POWER SUPPLY UNIT >

No.	Signal Name	I/O	Signal Description	Voltages at NTSC Signal Input
1	6.5V	ı	+6.5V power supply	+6.8VDC
2	6.5V	ı	+6.5V power supply	+6.8VDC
3	Vcc_GND	_	GND	
4	Vcc_GND	_	GND	
5	STB3.3V	ı	Power supply +3.3V input of module UCOM at panel side	+3.3VDC
6	STB_GND	_	GND	
7	STB3.3MUTE	0	Standby control (+3.3V mute)	+3.3 VDC
8	AC_DET	ı	Primary power supply (AC) state input at panel side	+3.0VDC

CN4002 (R2) < ⇔ MEDIA RECEIVER >

No.	Signal Name	I/O	Signal Description	Voltages at NTSC Signal Input
1	MR_ST_B	ı	Connection state detecting signal with MR	0VDC
2	MRXD	0	UART communication transmission data with the main UCOM (external PC) at MR side	0-3.3V amplitude square wave
3	P_ST_B	0	Connection state output for the MR	0VDC
4	ACT3V	0	Power supply +3.3V output of module UCOM at panel side	+3.3VDC
5	AC_OFF	0	Primary power supply (AC) state output at panel side	0VDC
6	GND	_	GND	
7	REQ	0	Communication request to the main UCOM (external PC) at the MR	0-3.3V amplitude square wave
8	STB3V	ı	Standby power supply (+3.3V) input from the MR	+3.3VDC
9	KEY_B	0	Function key code signal output at panel side	0-3.3V amplitude square wave (at key operation)
10	MR_ST_B'	I	Connection state detecting signal with the MR	0VDC
11	MTXD	I	UART communication receive data with the main UCOM (external PC) at the MR side	0-3.3V amplitude square wave
12	GND	_	GND	
13	AUDIO_R	ı	R ch audio signal input	Audio R signal
14	REM_B	0	Remote control code signal output	0-3.3V amplitude square wave (at remocon code transmission)
15	STB_MT	I	Standby control input	0VDC
16	GND	_	GND	
17	NC	_	Not connected	_
18	FIELD	I	FIELD control signal	0VDC
19	GND	_	GND	
20	AUDIO_L	I	L ch audio signal input	Audio L signal

CN4003 (R3) < ⇔ MEDIA RECEIVER >

No.	Signal Name	I/O	Signal Description	Voltages at NTSC Signal Input
1	RX2-	ı	DVI signal	DVI differential signal (-)
2	RX2+	ı	DVI signal	DVI differential signal (+)
3	GND	ı	GND	
4	N.C	-	Not connected	_
5	N.C	_	Not connected	_
6	DDC_SCL		I2C signal for DDC	0-5V amplitude square wave
7	DDC_SDA	- 1	I2C signal for DDC	0-5V amplitude square wave
8	N.C	_	Not connected	_
9	RX1-		DVI signal	DVI differential signal (-)
10	RX1+	- 1	DVI signal	DVI differential signal (+)
11	GND	_	GND	
12	N.C	-	Not connected	_
13	N.C	_	Not connected	_
14	DDC_+5V	ı	I2C power supply for DDC	+5VDC
15	GND	_	GND	
16	HPD	0	Hot plug detection	+5VDC
17	RX0-	ı	DVI signal	DVI differential signal (-)
18	RX0+	I	DVI signal	DVI differential signal (+)
19	GND	_	GND	
20	N.C	_	Not connected	-
21	N.C	_	Not connected	-

27

В

С

Ε

PDP-505PE

Voltages

В

CN4003 (R3) < ⇔ MEDIA RECEIVER >

No.	Signal Name	I/O	Signal Description	Voltages at NTSC Signal Input
22	GND	_	GND	
23	RXC+	I	DVI signal	DVI differential signal (-)
24	RXC-	I	DVI signal	DVI differential signal (+)

3

CN4009 (R7) < ⇔ HD AUDIO AMP ASSY >

No.	Signal Name	I/O	Signal Description	Voltages at NTSC Signal Input
1	A_NG	ı	Abnormal detecting signal of the audio block	+3.3V DC
2	V+6.5	0	+6.5V power supply	+6.8V DC
3	GNDA	_	GND	
4	L_IN	0	L ch audio signal	Audio L signal
5	GNDA	_	GND	
6	R_IN	0	R ch audio signal	Audio R signal
7	ST_BY	0	Standby signal of the audio block	+3.3V DC
8	A_MUTE	0	Audio mute signal input	0V DC
9	SCL	0	I2C control signal for audio	0-3.3V amplitude square wave
10	SDA	0	I2C control signal for audio	0-3.3V amplitude square wave
11	FOCUS	0	Focus function control signal	+3.3V DC
12	SRS	0	SRS function control signal	+3.3V DC
13	TRUBASS	0	TRUBASS function control signal	+3.3V DC

CN4010 (R8) $< \Leftrightarrow$ PANEL LED ASSY, PANEL IR ASSY, KEY CONTROL ASSY >

No.	Signal Name	I/O	Signal Description	Voltages at NTSC Signal Input
1	LED_G	0	LED control (green)	+2.1VDC
2	LED_R	0	LED control (red)	OVDC
3	AC_OFF	0	Primary power supply (AC) state output at the panel side	OVDC
4	STB3V	0	+3.3V power supply	+3.3V DC
5	STBGND	_	GND	
6	REM	I	Remote control code signal input	0-3.3V amplitude square wave (at remocon code transmission)
7	STB+3V	0	+3.3V power supply	+3.3V DC
8	KEY	ı	Function key code signal input at the panel side	0-3.3V amplitude square wave (at key operation)
9	STBGND	_	GND	

CN4801 (SW1) < ⇔ KEY CONTROL ASSY >

No.	Signal Name	I/O	Signal Description	Voltages at NTSC Signal Input
1	STBGND	_	GND	0V DC
2	G1	0	Key scan signal	0V DC
3	G0	0	Key scan signal	0V DC
4	D5	ı	Key scan signal	+3.3V DC
5	D6	ı	Key scan signal	+3.3V DC
6	D7	ı	Key scan signal	+3.3V DC

28

Е

• Voltages

5

$CN4004 (R4) < \Leftrightarrow DIGITAL VIDEO ASSY > (1/2)$

No.	Signal Name	I/O	Signal Description	Voltages at NTSC Signal Input
1	GND	_	GND	
2	GND	_	GND	-
3	GND	_	GND	_
4	GND	_	GND	_
5	BA0	0	8bit video signal output (BLUE even number)	0-3.3V amplitude square wave
6	BA1		8bit video signal output (BLUE even number)	0-3.3V amplitude square wave
7	BA2		8bit video signal output (BLUE even number)	0-3.3V amplitude square wave
8	BA3	0	8bit video signal output (BLUE even number)	0-3.3V amplitude square wave
9	BA4		8bit video signal output (BLUE even number)	0-3.3V amplitude square wave
10	BA5	0	8bit video signal output (BLUE even number)	0-3.3V amplitude square wave
11	BA6	0	8bit video signal output (BLUE even number)	0-3.3V amplitude square wave
	BA7		8bit video signal output (BLUE even number)	0-3.3V amplitude square wave
13	GND		GND	_
14	GND	_	GND	_
15	GND	_	GND	_
16	GND	_	GND	_
17	GA0		8bit video signal output (GREEN even number)	0-3.3V amplitude square wave
18	GA1		8bit video signal output (GREEN even number)	0-3.3V amplitude square wave
19	GA2		8bit video signal output (GREEN even number)	0-3.3V amplitude square wave
20	GA3	0	8bit video signal output (GREEN even number)	0-3.3V amplitude square wave
21	GA4		8bit video signal output (GREEN even number)	0-3.3V amplitude square wave
22	GA5		8bit video signal output (GREEN even number)	0-3.3V amplitude square wave
23	GA6		8bit video signal output (GREEN even number)	0-3.3V amplitude square wave
24	GA7		8bit video signal output (GREEN even number)	0-3.3V amplitude square wave
25	GND		GND	_
26	GND		GND	_
27	GND		GND	_
28	GND	_	GND	_
29	RA0		8bit video signal output (RED even number)	0-3.3V amplitude square wave
30	RA1		8bit video signal output (RED even number)	0-3.3V amplitude square wave
31	RA2		8bit video signal output (RED even number)	0-3.3V amplitude square wave
32	RA3		8bit video signal output (RED even number)	0-3.3V amplitude square wave
33	RA4		8bit video signal output (RED even number)	0-3.3V amplitude square wave
34	RA5		8bit video signal output (RED even number)	0-3.3V amplitude square wave
35	RA6		8bit video signal output (RED even number)	0-3.3V amplitude square wave
36	RA7		8bit video signal output (RED even number)	0-3.3V amplitude square wave
37	GND\		GND	_
38	DCLK	0	Synchronous signal output (clock)	0-3.3V amplitude square wave (42.5MHz)
39	GND		GND	_
40	DEI		Synchronous signal output (data enable)	0-3.3V amplitude square wave (positive polarity)
41	HDI		Synchronous signal output (Horizontal sync.)	0-3.3V amplitude square wave (negative polarity)
42	VDI		Synchronous signal output (Vertical sync.)	0-3.3V amplitude square wave (negative polarity)
43	FIELD		FIELD control signal	0V DC
44	APL_DT		Not connected	_
45	GND	_	GND	-
46	GND	_	GND	_
47	BB0	0	8bit video signal output (BLUE odd number)	0-3.3V amplitude square wave
48	BB1	0	8bit video signal output (BLUE odd number)	0-3.3V amplitude square wave
49	BB2		8bit video signal output (BLUE odd number)	0-3.3V amplitude square wave
50	BB3		8bit video signal output (BLUE odd number)	0-3.3V amplitude square wave
	BB4		8bit video signal output (BLUE odd number)	0-3.3V amplitude square wave
	BB5		8bit video signal output (BLUE odd number)	0-3.3V amplitude square wave
53	BB6		8bit video signal output (BLUE odd number)	0-3.3V amplitude square wave
54	BB7		8bit video signal output (BLUE odd number)	0-3.3V amplitude square wave
55	GND	_	GND	_
56	GND	_	GND	_
57	GND	_	GND	_

29

В

С

D

Ε

PDP-505PE

5

В

С

CN4004 (R4) $<\Leftrightarrow$ DIGITAL VIDEO ASSY > (2/2)

	Signal Name	I/O	Signal Description	Voltages at NTSC Signal Input
59	GB0	0	8bit video signal output (GREEN odd number)	0-3.3V amplitude square wave
60	GB1	0	8bit video signal output (GREEN odd number)	0-3.3V amplitude square wave
61	GB2	0	8bit video signal output (GREEN odd number)	0-3.3V amplitude square wave
62	GB3	0	8bit video signal output (GREEN odd number)	0-3.3V amplitude square wave
63	GB4	0	8bit video signal output (GREEN odd number)	0-3.3V amplitude square wave
64	GB5	0	8bit video signal output (GREEN odd number)	0-3.3V amplitude square wave
65	GB6	0	8bit video signal output (GREEN odd number)	0-3.3V amplitude square wave
66	GB7	0	8bit video signal output (GREEN odd number)	0-3.3V amplitude square wave
67	GND	_	GND	·
68	GND	_	GND	
69	GND	_	GND	
70	GND	_	GND	
71	RB0	0	8bit video signal output (RED odd number)	0-3.3V amplitude square wave
72	RB1	0	8bit video signal output (RED odd number)	0-3.3V amplitude square wave
73	RB2	0	8bit video signal output (RED odd number)	0-3.3V amplitude square wave
74	RB3	0	8bit video signal output (RED odd number)	0-3.3V amplitude square wave
75	RB4	0	8bit video signal output (RED odd number)	0-3.3V amplitude square wave
	RB5	0	8bit video signal output (RED odd number)	0-3.3V amplitude square wave
77	RB6	0	8bit video signal output (RED odd number)	0-3.3V amplitude square wave
78	RB7	0	8bit video signal output (RED odd number)	0-3.3V amplitude square wave
79	GND	_	GND	o olov ampinado equale wave
80	MASK		Not connected	_
81	MODE		Not connected	_
82	MODEL		Not connected	_
83	DITHER		Not connected	
84	V+3VACTV	0	Power supply +3.3V output of module UCOM at panel side	+3.3VDC
	B_SDA	Ī	E2PROM control signal for backup	0-3.3V amplitude square wave
	RXD0	0	UART communication receive data with the main UCOM (external PC) at MR side	0-3.3V amplitude square wave
	REM_B	0	Remote control code signal output	0-3.3V amplitude square wave (at remoce
	_	1	UART communication transmission data with the main UCOM (external PC) at MR side	code transmission)
88	TXD0	ı	OATT COMMUNICATION HARSINISSION GATE WITH THE THAIN OCCUM (EXTERNAL TO) AT WITH SIGE	0-3.3V amplitude square wave
	KEY_B	0	Function key code signal output at panel side	0-3.3V amplitude square wave (at key operation)
90	REQ_MD	ı	Communication request to the main UCOM at MR side	0-3.3V amplitude square wave
91	LED_R_B	ı	LED control (red)	+3.3VDC
92	MR_AC_OFF	0	AC state output at MR side	OVDC
93	LED_G_B	ı	LED control (green)	OVDC
94	POWER		Not connected	_
95	DVI_MUTE	- 1	DVI mute signal input	OVDC
96	MR_ST_B	0	Connection state detecting signal with MR	OVDC
97	A_MUTE	- 1	Audio mute signal input	OVDC
98	OP_DET		GND	
99	A_NG	0	Abnormal detecting signal of audio block	+3.3VDC
	PNL_MUTE		Not connected	_
100	A_SCL	ı	I2C control signal for audio	0-3.3V amplitude square wave
100 101		l I	I2C control signal for audio Standby signal of audio block	0-3.3V amplitude square wave +3.3VDC
100 101 102	A_SCL			·
100 101 102 103	A_SCL STB_SW	I	Standby signal of audio block	+3.3VDC
100 101 102 103 104	A_SCL STB_SW A_SDA	l I	Standby signal of audio block I2C control signal for audio	+3.3VDC
100 101 102 103 104 105	A_SCL STB_SW A_SDA DDC_WP		Standby signal of audio block I2C control signal for audio GND	+3.3VDC 0-3.3V amplitude square wave
100 101 102 103 104 105 106	A_SCL STB_SW A_SDA DDC_WP TRUBASS	 	Standby signal of audio block I2C control signal for audio GND TRUBASS function control signal	+3.3VDC 0-3.3V amplitude square wave +3.3VDC
100 101 102 103 104 105 106 107	A_SCL STB_SW A_SDA DDC_WP TRUBASS B_SCL FOCUS	 	Standby signal of audio block I2C control signal for audio GND TRUBASS function control signal E2PROM control signal for backup FOCUS function control signal	+3.3VDC 0-3.3V amplitude square wave +3.3VDC 0-3.3V amplitude square wave +3.3VDC
100 101 102 103 104 105 106 107 108	A_SCL STB_SW A_SDA DDC_WP TRUBASS B_SCL FOCUS DVI_OFF		Standby signal of audio block I2C control signal for audio GND TRUBASS function control signal E2PROM control signal for backup FOCUS function control signal Connection detecting signal of DVI connector	+3.3VDC 0-3.3V amplitude square wave +3.3VDC 0-3.3V amplitude square wave +3.3VDC 0VDC
100 101 102 103 104 105 106 107 108	A_SCL STB_SW A_SDA DDC_WP TRUBASS B_SCL FOCUS DVI_OFF SRS		Standby signal of audio block I2C control signal for audio GND TRUBASS function control signal E2PROM control signal for backup FOCUS function control signal Connection detecting signal of DVI connector SRS function control signal	+3.3VDC 0-3.3V amplitude square wave +3.3VDC 0-3.3V amplitude square wave +3.3VDC 0VDC +3.3VDC
100 101 102 103 104 105 106 107 108 109 110	A_SCL STB_SW A_SDA DDC_WP TRUBASS B_SCL FOCUS DVI_OFF SRS RSTBTMD		Standby signal of audio block I2C control signal for audio GND TRUBASS function control signal E2PROM control signal for backup FOCUS function control signal Connection detecting signal of DVI connector SRS function control signal TMDS IC reset signal	+3.3VDC 0-3.3V amplitude square wave +3.3VDC 0-3.3V amplitude square wave +3.3VDC 0VDC
100 101 102 103 104 105 106 107 108 109 110	A_SCL STB_SW A_SDA DDC_WP TRUBASS B_SCL FOCUS DVI_OFF SRS RSTBTMD MAX_PLS1		Standby signal of audio block I2C control signal for audio GND TRUBASS function control signal E2PROM control signal for backup FOCUS function control signal Connection detecting signal of DVI connector SRS function control signal TMDS IC reset signal Not connected	+3.3VDC 0-3.3V amplitude square wave +3.3VDC 0-3.3V amplitude square wave +3.3VDC 0VDC +3.3VDC +3.3VDC
100 101 102 103 104 105 106 107 108 109 110 111	A_SCL STB_SW A_SDA DDC_WP TRUBASS B_SCL FOCUS DVI_OFF SRS RSTBTMD		Standby signal of audio block I2C control signal for audio GND TRUBASS function control signal E2PROM control signal for backup FOCUS function control signal Connection detecting signal of DVI connector SRS function control signal TMDS IC reset signal	+3.3VDC 0-3.3V amplitude square wave +3.3VDC 0-3.3V amplitude square wave +3.3VDC 0VDC +3.3VDC

3

30

Ε

PDP-505PE

=

3.1.5 DIGITAL VIDEO ASSY

5

6

7

8

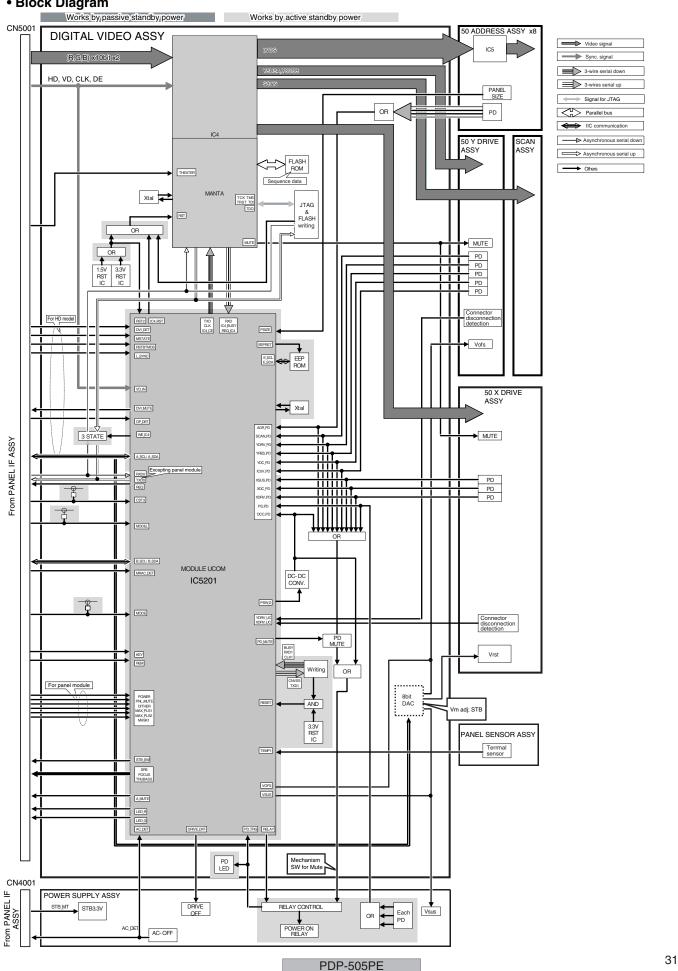
В

С

D

Ε

• Block Diagram



• Voltages

1

CN5601 (D1)

No.	Signal Name	I/O	Signal Description	Voltages at NTSC Signal Input
1	+12V	ı	+12V power input	+12VDC
2	+12V	I	+12V power input	+12VDC
3	GND_D	_	GND	
4	GND_D	_	GND	
5	PD	0	Power down signal	0VDC
6	VSUS_ADJ	0	VSUS adjustment signal	
7	PS_PD	ı	Power-down detecting signal of POWER SUPPLY block	OVDC
8	RELAY	0	Relay control signal	+3.3VDC
9	DRF	0	Drive control signal	OVDC
10	AC_DET	ı	Primary side power (AC) state output at panel side	+3.0VDC
11	PD_TRIGGER	I	Power down trigger	+3.3VDC

3

2

CN5602 (D2)

В

С

D

Ε

No.	Signal Name	I/O	Signal Description	Voltages at NTSC Signal Input
1	VADR	ı	Address drive power (+61V) input	+61VDC
2	VADR	ı	Address drive power (+61V) input	+61VDC
3	N.C		Not connected	
4	GND_ADR	_	GND	
5	GND_ADR	_	GND	
6	+6.5V	I	+6.5V power input	+6.8VDC
7	GND_D	_	GND	

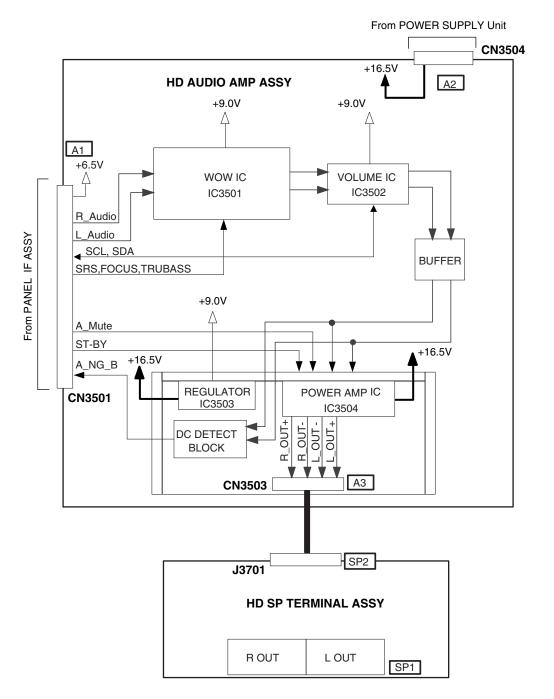
32

В

С

D

Ε



33

F

PDP-505PE

6

5

DIGITAL VIDEO ASSY (4/6)

• DIGITAL IF BLOCK

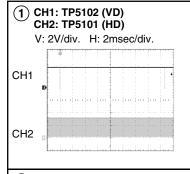
Α

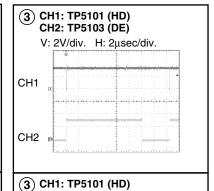
В

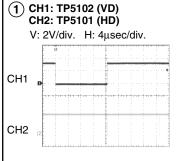
С

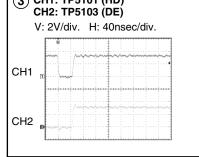
D

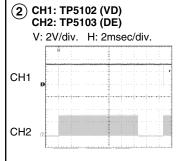
Ε

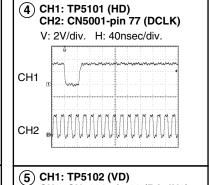


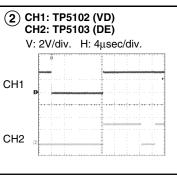


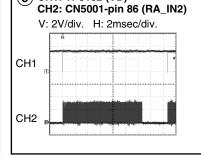








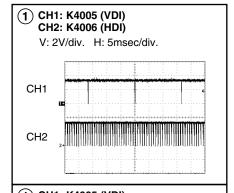


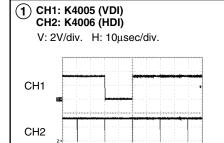


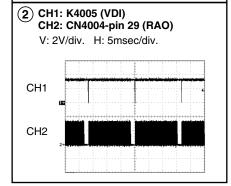
34

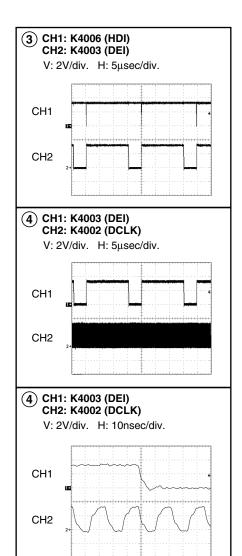
PANEL IF ASSY (1/2) • TMDS RX BLOCK

5









35

В

С

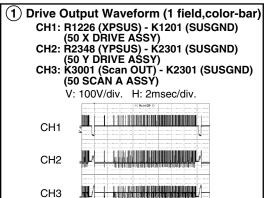
D

Ε

F

50 X DRIVE ASSY, 50 Y DRIVE ASSY and 50 SCAN A ASSY

• 50 X SUS BLOCK, 50 Y LOGIC BLOCK, 50 Y SUS BLOCK

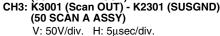




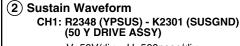


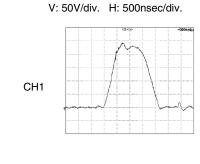
CH1: R1226 (XPSUS) - K1201 (SUSGND) (50 X DRIVE ASSY) CH2: R2348 (YPSUS) - K2301 (SUSGND) (50 Y DRIVE AŚSY) CH3: K3001 (Scan OUT) - K2301 (SUSGND)

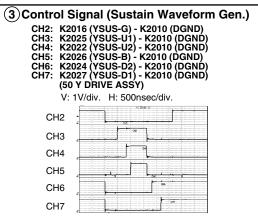
(1) Sustain Pulse (1 sub-sub-field)

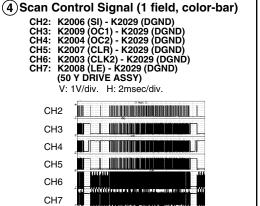


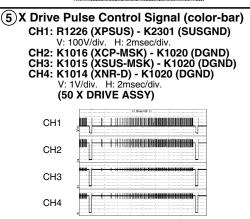


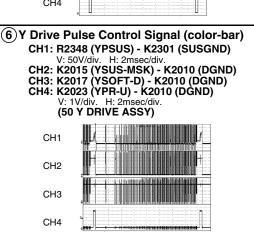












36

В

D

Ε

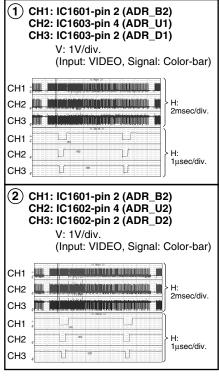
CH3

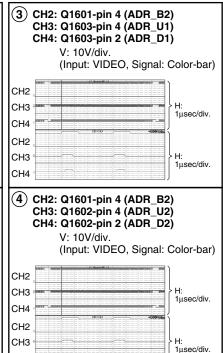
PDP-505PE

50 ADDRESS ASSY

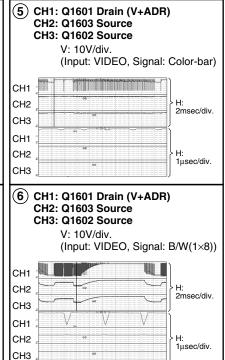
5

• ADR RESONANCE BLOCK (VIDEO and PC)





CH4



В

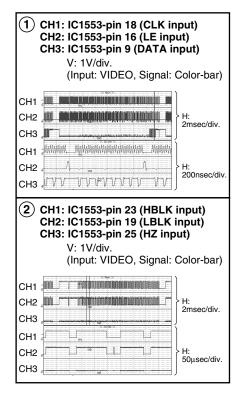
С

D

Ε

50 ADDRESS ASSY

• ADR LOGIC BLOCK



5

37

F

PDP-505PE

5. PCB PARTS LIST

Α

NOTES: • Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.

- ullet The $ilde{\Lambda}$ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- When ordering resistors, first convert resistance values into code form as shown in the following examples. Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

560Ω	-	$56 \times 10^{1} \rightarrow 56$	1	RD1/4PU561J
$47k \Omega$	\rightarrow	$47 \times 10^3 \rightarrow 47$	73	RD1/4PU473J
$0.5~\Omega$	-	R50		RN2HR50K
1 O	-	1R0		RSIPIROK

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

 $5.62k~\Omega \rightarrow 562~x~10^{\,1} \rightarrow 5621~\cdots RN1/4PC~562~1F$

		$5.62k\Omega \rightarrow 5$	562 x 10 ¹ → 5621 ·····		RN1/4PC 3 6 2	
В	Mark	No. Description	Part No.	Mark No.	Description	Part No.
_	LIS'	T OF ASSEMBLIES				
				50 ADD	RESS ASSY	
	NSP	150 ADDRESS ASSY	AWV2080	[50 ADR LOG	IC BLOCK]	
	NSP	250 ADDRESS ASSY	AWZ6870	SEMICONDU	<u>JCTORS</u>	
				IC1501		PEE001B
		150 SCAN ASSY	AWV2083			
	NSP	250 SCAN A ASSY	AWZ6878	COILS AND	<u>FILTERS</u>	
	NSP NSP		AWZ6879 AWZ6880	L1504		QTL1013
	NSP		AWZ6881		_	
		2 33111231311271301	74120001	<u>CAPACITOR</u>		
	NSP	1HD PANEL IF ASSY	AWV2073	C1501, C1502		ACH1357
С		2PANEL IF ASSY	AWZ6841	C1509, C1510		CKSSYB102K50
					, C1511, C1512, C1552	
		1DIGITAL VIDEO ASSY	AWV2074	C1555, C1558	3, C1561, C1564	CKSSYF104Z16
	NSP	1HD AUDIO ASSY	AWV2075	RESISTORS		
		2HD AUDIO AMP ASSY	AWZ6863	R1510, R1519	9, R1522, R1526	RAB4C470J
		2HD SP TERMINAL ASSY	AWZ6864		, R1530, R1531	RS1/16SS1000F
_					, R1520, R1521, R1523	RS1/16SS470J
	NSP	150 X DRIVE ASSY	AWV2081	-	7, R1528, R1532-R1535	RS1/16SS470J
		2PANEL LED ASSY	AWZ6842	Other Resisto	rs	RS1/16S###J
		2PANEL KEY ASSY	AWZ6843	OTHERS		
		2KEY CONTROL ASSY 2PANEL IR ASSY	AWZ6844 AWZ6845	OTHERS	FFC CONNECTOR	AKM1215
D		2PANEL SENSOR ASSY	AWZ6872	CN 1501 40P	FFC CONNECTOR	ANIVI1215
		250 X DRIVE ASSY	AWZ6877	[50 ADR RES	ONANCE BLOCK]	
				SEMICONDU		
		150 Y DRIVE ASSY	AWV2082	IC1601-IC160		TND307TD
				Q1604	•	2SA1163
_	<u> </u>	1POWER SUPPLY UNIT	AXY1085	Q1601		HAT1110R
				Q1602, Q160	3	HAT3021R
				D1601		1SS302
				D1605, D1606	6, D1616, D1617	D1FL20U(S)
				D1610, D1619		RF051UA1D
				D1602, D1607	7, D1615	UDZS15(B)
Е				COILS AND	FILTERS	
				L1601, L1602		ATH1164
				CADACITOD	0	
				CAPACITOR		ACC1101
				C1605 (0.01/1 C1619, C1620	,	ACG1101 ACG1105
				C1609, C1615		ACG1103
				C1618 (47/6.3		ACH1357
				C1603 (47/16	,	ACH1391
				C1601, C1602	2 (56/80V)	ACH1405
				C1608, C1614	,	CKSRYB104K25
_				·		

PDP-505PE

R1631 ACN1174

C1604, C1606, C1612

RESISTORS

3

CKSSYF104Z16

•	5	6	7	8	
Mark No.	<u>Description</u>	Part No.	Mark No. Description	Part No.	
Other Resisto		RS1/16S###J	Other Resistors	RS1/16S###J	
	AN A ASSY		OTHERS		
<u>SEMICONDI</u>			CN3201 13P CONNECTOR NONPB	AKP1261	,
IC3001-IC300		AN16021AA	K3203, K3208, K3214, K3216, K3218	AKX9002	
D3003-D3006	Ď	1SS355	K3221 TEST PIN	AKX9002	
CAPACITOR	RS				
	2, C3012, C3013 (0.1/250)	V)ACG1088			
	4, C3034, C3035 (0.1/250)		X CONNECTOR A ASSY	,	
	6, C3056, C3057 (0.1/250)		This assembly has no service part.		
	8, C3016, C3019, C3026 7, C3040, C3048, C3051		This assembly has no service part.		
C3029, C303	7, 03040, 03046, 03051	CCShCH101350			
C3060, C306		CCSRCH101J50	X CONNECTOR B ASSY	,	
	8, C3033, C3044, C3050		This assembly has no service part.		
C3062	4 00047 00000	CCSRCH181J50			
	1, C3017, C3022 2, C3042, C3043, C3049	CCSRCH331J50 CCSRCH331J50			
C3031, C303	2, 03042, 03043, 03049	CCShChSs1350	PANEL IF ASSY		
C3055, C306	1, C3066	CCSRCH331J50	[PANEL IF BLOCK]		
,	*	CCSRCH390J50	<u>SEMICONDUCTORS</u>		
	9, C3041, C3053, C3054		IC4002	BR24L02FJ-W	
C3064, C306		CCSRCH390J50	△ IC4003	NCP1117DT33	
C3003, C301	4, C3025, C3036, C3047	CKSRYB105K6R3	IC4006 Q4007	SN74AHC541PW DTA143EUA	
C3058		CKSRYB105K6R3	Q4007 Q4004, Q4008, Q4009, Q4012	DTC143EUA	
J00J0		CHOILDIONODO	G 100 1, G1000, G1000, G1012	SIGITOLOA	
ESISTORS	<u> </u>		Q4014-Q4017	DTC143EUA	
	1, R3017, R3025, R3030	RAB4C221J	Q4005, Q4006, Q4010, Q4013	RN1901	
R3036		RAB4C221J	Q4011	RN2901	
Other Resisto	ors	RS1/16S###J	Q4001 D4006	SM6K2 1SS355	
THERE			D4000	100000	
ON 2001 12D	CONNECTOR NON PB	AI/D1061	D4001-D4004, D4007	RB751V-40	
	4, K3009, K3015, K3017	AKX9002	⚠ D4005	UDZS5R1(B)	
K3019, K302		AKX9002			ļ
			COILS AND FILTERS		
			F4002	ATF1213	
			L4001	LCTAW221J3225	
E0 8CA	M B ACCV		CAPACITORS		
	AN B ASSY		C4009, C4020	CCSRCH471J50	I
EMICONDI		ΛΝ16021 Λ Λ	C4005, C4006	CCSSCH100D50	
IC3201-IC320 D3203-D3206		AN16021AA 1SS355	C4019	CCSSCH101J50	
20200 20200	•	. 55555	C4011, C4018, C4021 C4003, C4015	CEAT101M10 CEAT101M16	
APACITOR	<u>rs</u>		04003, 04013	JEAI IUIIVIIO	
C3201, C321	1, C3212, C3222, C3223	ACG1088	C4004, C4010, C4012, C4014	CKSRYB103K50	
	4, C3244, C3245(0.1/250V	•	C4016, C4024, C4041	CKSSYF104Z16	
,	6, C3266 (0.1/250V)	ACG1088			
	4, C3214, C3215, C3226		RESISTORS		
USZZÖ, USZS	7, C3239, C3247, C3251	000000101000	R4006	RAB4C101J	
C3258, C325	9	CCSRCH101J50	R4001 Other Recistors	RS1/16S331J	
	7, C3232, C3243, C3249		Other Resistors	RS1/16SS###J	
C3261		CCSRCH181J50	OTHERS		
•	0, C3216, C3221	CCSRCH331J50	CN4004 114PFFC CONNECTOR	AKM1216	
C3230, C323	1, C3241, C3242, C3248	CCSRCH331J50	CN4003 DVI SOCKET (24P)	AKP1216	
C3254, C326	0 03265	CCSBCH331 IEU	CN4002 SOCKET (20P)	AKP1226	
,	0, C3265 9, C3219, C3220, C3227	CCSRCH331J50 CCSRCH390J50	CN4001 PLUG (8P)	KM200NA8	
	8, C3240, C3252, C3253		CN4010 PLUG (9P)	KM200NA9	
C3263, C326		CCSRCH390J50	CNADO DI LIC (13D)	KM200NA 12	
	3, C3224, C3235, C3246	CKSRYB105K6R3	CN4009 PLUG (13P)	KM200NA13	
C20E7		CI/CDVD40FI/CD0			
C3257		CKSRYB105K6R3	[TMDS RX BLOCK]		
ESISTORS	:		SEMICONDUCTORS		
	0, R3216, R3224, R3229	RAB4C221.I	IC4206	BA8274F	
R3235	5, . 102 10, 1 1022 T, 1 1022 T	RAB4C221J	IC4205	PST3628UR	
		- · -	IC4202	SII169CTG100	
			PDP-505PE		39
	5	6	7	8	

	1	2		3	-	4
	Mark No. Descrip	tion Part No.	<u> </u>	Mark No.	Description	Part No.
	Q4215	SM6K2			-	
	D4203, D4204	1SS355		DECICTORS		
	D4202	UDZS6R8(B)		RESISTORS R5209, R5211, F	R5212 R5235	RAB4C101J
		· /		R5254, R5255, F		RAB4C101J
	COILS AND FILTERS	ATILIAA		R5205		RAB4C103J
	L4201 CAPACITORS	ATH1162		R5270, R5271 R5256, R5257		RAB4C472J RAB4C474J
	C4208, C4215, C4218, C422	2, C4230 CCSRCH331J50		110200, 110207		11/10-10-11-10
	C4262	CCSRCH471J50		R5294		RS1/16S0R0J
	C4207, C4210, C4232, C423			Other Resistors		RS1/16SS###J
	C4241, C4244, C4258 C4242, C4246	CCSSCH820J50 CEAT101M10		OTHERS		
	04242, 04240	OL/ II TOTIVITO		CN5201 PLUG 8	3-P	AKM1225
	C4202, C4237, C4238	CEAT470M10		CN5202 CONNE		AKM1274
	C4260 C4203, C4213, C4240, C424	CKSRYB472K50 3. C4247 CKSSYF104Z16		⚠X5201 CERAMI	CRESONATOR	ASS1178
	C4261, C4271	CKSSYF104Z16				
				[PANEL FLASH	•	
	RESISTORS	DAD400001		SEMICONDUC	CTORS	
	R4241 R4213-R4218, R4245, R424	RAB4C220J 7 RAB4C470J		IC5305 IC5303		MBM29PL160BD-75PFTN PST3612UR
	R4253-R4255, R4257	RAB4C470J		IC5303		PST3628UR
	R4250	RS1/16S3900F		IC5302		SN74AHC08PW
	R4222- R4225	RS1/16S0R0J		Q5301		RN1901
	Other Resistors	RS1/16SS###J		D5301-D5310		DA204U
;				CAPACITORS		
	DIGITAL VIDEO	VSSV		C5320		CCSRCH470J50
	[DIGITAL IF BLOCK]	A331		C5321, C5322 C5311, C5314		CCSRCH471J50 CKSRYB104K16
	RESISTORS			C5303, C5306		CKSRYB472K50
	R5101-R5115, R5131	RAB4C470J		C5304, C5307		CKSSYB102K50
	Other Resistors	RS1/16SS###J		C5301, C5302, (C5305, C5309, C5313	CKSSYF104Z16
	OTHERS			C5316	,	CKSSYF104Z16
	CN5001 114P FFC CONNEC	CTOR AKM1216		DECICEODO		
				RESISTORS R5317, R5318		RAB4C101J
	[MODIJI E LICOM BLOCK]			Other Resistors		RS1/16SS###J
)	[MODULE UCOM BLOCK] SEMICONDUCTORS					
	IC5206	BR24L04FJ-W		<u>OTHERS</u>		
	IC5201	M30622F8PGP		CN5301 PLUG 1 1 X5302 CRYSTAL		AKM1232 ASS1174
	IC5205	PST3628UR		⚠X5302 CRYSTAI		ASS1174 ASS1182
	IC5208 IC5214, IC5215	SN74AHC08PW SN74AHC32PW				
	100214, 100210	31N/ 4ANU32FW		IIO4 PL OOK		
	IC5211, IC5212	SN74AHC541PW		[IC4 BLOCK] SEMICONDUC	TOPS	
	IC5209 Q5201	TC7W126FU 2SJ461A		IC5401	<u> </u>	PEG054A
	Q5201	DTC143EUA		D5401		SML-310LT
	D5217	1SS355		D5402		SML-310MT
	D5207-D5212	DAN202U		COILS AND FI	ITERS	
	D5201-D5212	SML-310LT		F5401, F5403, F		ATF1213
	SWITCHES AND RELAY			CAPACITORS	25447 05404	A O L 14 0 0 0
l	S5201	ASH1047		C5401, C5413, ((100UF/6.3V)	C5417, C5424	ACH1396
ļ	CAPACITORS			C5434, C5435		CKSSYB102K50
	C5213, C5225	ACH1357		C5402-C5412, C		CKSSYF104Z16
	C5205	CKSRYB472K50		C5418-C5423, C	C5425-C5431	CKSSYF104Z16
	C5206, C5223, C5231, C524 C5257- C5260	-5-C5252 CKSSYB102K50 CKSSYB102K50		RESISTORS		
	C5202-C5204, C5207, C5208			R5406, R5421		RAB4C101J
	C5210-C5212, C5218, C5224			R5408-R5413, F	R5415, R5416, R5419	RAB4C220J
	C5226, C5227, C5243, C524	4 CKSSYF104Z16		R5422 R5405		RAB4C220J RS1/16S5601F
	03220, 03221, 05243, 0524	4 UNSSYF1U4Z16		N34U3		1/1000001F
	40		PDP-505PE			
	1	2	-	3		4 ■

Α

В

С

D

Ε

F

ark No. Description	Part No.	Mark No. Description	Part No.	
R5401-R5404	RS1/16S0R0J	C3559, C3560	CEHAT2R2M50	
		C3509	CEHAT331M16	
Other Resistors	RS1/16SS###J	C3507	CEHAT471M25	
		C3571	CEHAT472M25	
		C3563	CEHATR47M50	
ADDDESS ON BLOCKI		C3512, C3522, C3572	CFTLA103J50	
ADDRESS CN BLOCK]		C3512, C3522, C3572 C3511, C3513-C3518, C3533, C3534	CFTLA103J50 CFTLA104J50	
ESISTORS		C3545-C3548, C3573-C3576	CFTLA104J50	
Other Resistors	RS1/16SS###J	C3521	CFTLA333J50	
		C3524	CFTLA3334J50	
THERE		00024	01 1 LA00+030	
CNIESS CONNECTOR	AIZM4004	C3523	CFTLA474J50	
CN5521 50P CONNECTOR	AKM1201	C3506, C3508, C3510, C3527, C3535	CKSRYB103K50	
CN5501-CN5508 40P CONNECTOR	AKM1217	C3550, C3558	CKSRYB103K50	
CN5511 30P FFC CONNECTOR	AKM1218	C3543, C3544	CQMA222J50	
DIGITAL DD CON BLOCK]		<u>RESISTORS</u>		
EMICONDUCTORS		R3599-R3602	RD1/2MMF2R2J	
\IC5605	BA90BC0FP	Other Resistors	RS1/16S###J	
\IC5604	MM1665AT			
Q5601	HN1C01FU	<u>OTHERS</u>		
D5602, D5609	DAN202U	3511 AUDIO HEATSINK	ANH1612	
D5601	HZU2R2(B)	CN3504 CONNECTOR	B3P-VH	
20001	ו ובטבו וב(ט)	CN3502, CN3503 PLUG (6P)	KM200NA6	
D5604	UDZS5R1(B)	CN3501 PLUG (13P)	KM200NA13	
	35230111(5)	3512-3515 SCREW	VBB30P100FNI	
APACITORS		KN3501, KN3502	VNF1084	
	ACU1204	WRAPPING TERMINAL		
C5601, C5603, C5614, C5616	ACH1394			
(100UF/16V)	CKCD/D100/E0			
C5602, C5604, C5615, C5617	CKSRYB103K50			
C5605, C5606	CKSSYF104Z16	HD SP TERMINAL ASS	SY	
ECICTORS		COILS AND FILTERS		
ESISTORS	D04/4065225		ATE1206	
R5613	RS1/16S0R0J	∆ L3701, L3702	ATF1206	
Other Resistors	RS1/16SS###J	CADACITODO		
TUEDO		<u>CAPACITORS</u>	00000011404 155	
<u>THERS</u>		∆ C3701-C3704	CCSRCH101J50	
CN5602 7P CONNECTOR	AKM1278	C3713-C3716	CCSRCH221J50	
CN5601 11P CONNECTOR	AKM1282	C3709, C3710	CKSRYB332K50	
U5602 DD CON UNIT	A 3/3/4 000	C3711, C3712	CKSRYF473Z50	
03002 DD CON ONIT	AXY1086			
OSOGE DID OON ONT	AXY1086	DECISTORS		
COOCE BE CONTINUE	AXY1086	RESISTORS	DD4/0N4545400 !	
		RESISTORS R3701-R3704	RD1/2MMF100J	
HD AUDIO AMP ASSY		R3701-R3704	RD1/2MMF100J	
HD AUDIO AMP ASSY		R3701-R3704 <u>OTHERS</u>		
HD AUDIO AMP ASSY EMICONDUCTORS IC3502	BD3869AS	R3701-R3704 OTHERS J3701 6P HOUSING WIRE	ADX3041	
HD AUDIO AMP ASSY EMICONDUCTORS IC3502 IC3504	BD3869AS LA4625	R3701-R3704 OTHERS J3701 6P HOUSING WIRE CN3701 SPEAKER TERMINAL	ADX3041 AKE1060	
HD AUDIO AMP ASSY EMICONDUCTORS IC3502 IC3504 IC3501	BD3869AS LA4625 NJM2195L	R3701-R3704 OTHERS J3701 6P HOUSING WIRE CN3701 SPEAKER TERMINAL \$\triangle\$ 3701 SPEAKER SHIELD A	ADX3041 AKE1060 ANK1710	
HD AUDIO AMP ASSY EMICONDUCTORS IC3502 IC3504 IC3501 IC3503	BD3869AS LA4625 NJM2195L NJM7809FA	R3701-R3704 OTHERS J3701 6P HOUSING WIRE CN3701 SPEAKER TERMINAL	ADX3041 AKE1060	
HD AUDIO AMP ASSY EMICONDUCTORS IC3502 IC3504 IC3501	BD3869AS LA4625 NJM2195L NJM7809FA	R3701-R3704 OTHERS J3701 6P HOUSING WIRE CN3701 SPEAKER TERMINAL \$\triangle\$ 3701 SPEAKER SHIELD A	ADX3041 AKE1060 ANK1710	
HD AUDIO AMP ASSY EMICONDUCTORS IC3502 IC3504 IC3501 IC3503 Q3501, Q3502, Q3507, Q3510, Q3511	BD3869AS LA4625 NJM2195L NJM7809FA 2SA1162	R3701-R3704 OTHERS J3701 6P HOUSING WIRE CN3701 SPEAKER TERMINAL \$\triangle\$ 3701 SPEAKER SHIELD A	ADX3041 AKE1060 ANK1710	
HD AUDIO AMP ASSY EMICONDUCTORS IC3502 IC3504 IC3501 IC3503 Q3501, Q3502, Q3507, Q3510, Q3511 Q3503, Q3504, Q3508	BD3869AS LA4625 NJM2195L NJM7809FA 2SA1162 2SC2712	R3701-R3704 OTHERS J3701 6P HOUSING WIRE CN3701 SPEAKER TERMINAL ⚠ 3701 SPEAKER SHIELD A ⚠ 3702 SPEAKER SHIELD B	ADX3041 AKE1060 ANK1710	
HD AUDIO AMP ASSY EMICONDUCTORS IC3502 IC3504 IC3501 IC3503 Q3501, Q3502, Q3507, Q3510, Q3511 Q3503, Q3504, Q3508 Q3512	BD3869AS LA4625 NJM2195L NJM7809FA 2SA1162 2SC2712 DTC124EK	R3701-R3704 OTHERS J3701 6P HOUSING WIRE CN3701 SPEAKER TERMINAL A3701 SPEAKER SHIELD A A3702 SPEAKER SHIELD B	ADX3041 AKE1060 ANK1710	
HD AUDIO AMP ASSY EMICONDUCTORS IC3502 IC3504 IC3501 IC3503 Q3501, Q3502, Q3507, Q3510, Q3511 Q3503, Q3504, Q3508	BD3869AS LA4625 NJM2195L NJM7809FA 2SA1162 2SC2712	R3701-R3704 OTHERS J3701 6P HOUSING WIRE CN3701 SPEAKER TERMINAL ⚠ 3701 SPEAKER SHIELD A ⚠ 3702 SPEAKER SHIELD B PANEL LED ASSY SEMICONDUCTORS	ADX3041 AKE1060 ANK1710 ANK1711	
HD AUDIO AMP ASSY EMICONDUCTORS IC3502 IC3504 IC3501 IC3503 Q3501, Q3502, Q3507, Q3510, Q3511 Q3503, Q3504, Q3508 Q3512 D3501-D3504	BD3869AS LA4625 NJM2195L NJM7809FA 2SA1162 2SC2712 DTC124EK	R3701-R3704 OTHERS J3701 6P HOUSING WIRE CN3701 SPEAKER TERMINAL ⚠ 3701 SPEAKER SHIELD A ⚠ 3702 SPEAKER SHIELD B PANEL LED ASSY SEMICONDUCTORS D4751	ADX3041 AKE1060 ANK1710 ANK1711	
HD AUDIO AMP ASSY EMICONDUCTORS IC3502 IC3504 IC3501 IC3503 Q3501, Q3502, Q3507, Q3510, Q3511 Q3503, Q3504, Q3508 Q3512 D3501-D3504 EAPACITORS	BD3869AS LA4625 NJM2195L NJM7809FA 2SA1162 2SC2712 DTC124EK 1SS355	R3701-R3704 OTHERS J3701 6P HOUSING WIRE CN3701 SPEAKER TERMINAL ⚠ 3701 SPEAKER SHIELD A ⚠ 3702 SPEAKER SHIELD B PANEL LED ASSY SEMICONDUCTORS	ADX3041 AKE1060 ANK1710 ANK1711	
HD AUDIO AMP ASSY EMICONDUCTORS IC3502 IC3504 IC3501 IC3503 Q3501, Q3502, Q3507, Q3510, Q3511 Q3503, Q3504, Q3508 Q3512 D3501-D3504 EAPACITORS C3525	BD3869AS LA4625 NJM2195L NJM7809FA 2SA1162 2SC2712 DTC124EK 1SS355	R3701-R3704 OTHERS J3701 6P HOUSING WIRE CN3701 SPEAKER TERMINAL △3701 SPEAKER SHIELD A △3702 SPEAKER SHIELD B PANEL LED ASSY SEMICONDUCTORS D4751 D4752	ADX3041 AKE1060 ANK1710 ANK1711	
HD AUDIO AMP ASSY EMICONDUCTORS IC3502 IC3504 IC3501 IC3503 Q3501, Q3502, Q3507, Q3510, Q3511 Q3503, Q3504, Q3508 Q3512 D3501-D3504 EAPACITORS C3525 C3501-C3504, C3520, C3528-C3532	BD3869AS LA4625 NJM2195L NJM7809FA 2SA1162 2SC2712 DTC124EK 1SS355 CCSRCH221J50 CEAT100M50	R3701-R3704 OTHERS J3701 6P HOUSING WIRE CN3701 SPEAKER TERMINAL ⚠ 3701 SPEAKER SHIELD A ⚠ 3702 SPEAKER SHIELD B PANEL LED ASSY SEMICONDUCTORS D4751 D4752 COILS AND FILTERS	ADX3041 AKE1060 ANK1710 ANK1711 SML-310MT SML-311UT	
HD AUDIO AMP ASSY EMICONDUCTORS IC3502 IC3504 IC3501 IC3503 Q3501, Q3502, Q3507, Q3510, Q3511 Q3503, Q3504, Q3508 Q3512 D3501-D3504 EAPACITORS C3525 C3501-C3504, C3520, C3528-C3532 C3505, C3526, C3549, C3557, C3564	BD3869AS LA4625 NJM2195L NJM7809FA 2SA1162 2SC2712 DTC124EK 1SS355 CCSRCH221J50 CEAT100M50 CEAT101M16	R3701-R3704 OTHERS J3701 6P HOUSING WIRE CN3701 SPEAKER TERMINAL △3701 SPEAKER SHIELD A △3702 SPEAKER SHIELD B PANEL LED ASSY SEMICONDUCTORS D4751 D4752	ADX3041 AKE1060 ANK1710 ANK1711	
HD AUDIO AMP ASSY EMICONDUCTORS IC3502 IC3504 IC3501 IC3503 Q3501, Q3502, Q3507, Q3510, Q3511 Q3503, Q3504, Q3508 Q3512 D3501-D3504 EAPACITORS C3525 C3501-C3504, C3520, C3528-C3532 C3505, C3526, C3549, C3557, C3564 C3519	BD3869AS LA4625 NJM2195L NJM7809FA 2SA1162 2SC2712 DTC124EK 1SS355 CCSRCH221J50 CEAT100M50 CEAT101M16 CEAT1R0M50	R3701-R3704 OTHERS J3701 6P HOUSING WIRE CN3701 SPEAKER TERMINAL ⚠ 3701 SPEAKER SHIELD A ⚠ 3702 SPEAKER SHIELD B PANEL LED ASSY SEMICONDUCTORS D4751 D4752 COILS AND FILTERS	ADX3041 AKE1060 ANK1710 ANK1711 SML-310MT SML-311UT	
HD AUDIO AMP ASSY EMICONDUCTORS IC3502 IC3504 IC3501 IC3503 Q3501, Q3502, Q3507, Q3510, Q3511 Q3503, Q3504, Q3508 Q3512 D3501-D3504 EAPACITORS C3525 C3501-C3504, C3520, C3528-C3532 C3505, C3526, C3549, C3557, C3564	BD3869AS LA4625 NJM2195L NJM7809FA 2SA1162 2SC2712 DTC124EK 1SS355 CCSRCH221J50 CEAT100M50 CEAT101M16	R3701-R3704 OTHERS J3701 6P HOUSING WIRE CN3701 SPEAKER TERMINAL ⚠ 3701 SPEAKER SHIELD A ⚠ 3702 SPEAKER SHIELD B PANEL LED ASSY SEMICONDUCTORS D4751 D4752 COILS AND FILTERS	ADX3041 AKE1060 ANK1710 ANK1711 SML-310MT SML-311UT	
HD AUDIO AMP ASSY EMICONDUCTORS IC3502 IC3504 IC3503 Q3501, Q3502, Q3507, Q3510, Q3511 Q3503, Q3504, Q3508 Q3512 D3501-D3504 EAPACITORS C3525 C3501-C3504, C3520, C3528-C3532 C3505, C3526, C3549, C3557, C3564 C3519 C3536	BD3869AS LA4625 NJM2195L NJM7809FA 2SA1162 2SC2712 DTC124EK 1SS355 CCSRCH221J50 CEAT100M50 CEAT101M16 CEAT1R0M50 CEAT220M50	R3701-R3704 OTHERS J3701 6P HOUSING WIRE CN3701 SPEAKER TERMINAL ⚠ 3701 SPEAKER SHIELD A ⚠ 3702 SPEAKER SHIELD B PANEL LED ASSY SEMICONDUCTORS D4751 D4752 COILS AND FILTERS F4751-F4753	ADX3041 AKE1060 ANK1710 ANK1711 SML-310MT SML-311UT	
HD AUDIO AMP ASSY EMICONDUCTORS IC3502 IC3504 IC3503 Q3501, Q3502, Q3507, Q3510, Q3511 Q3503, Q3504, Q3508 Q3512 D3501-D3504 EAPACITORS C3525 C3501-C3504, C3520, C3528-C3532 C3505, C3526, C3549, C3557, C3564 C3519 C3536 C3537, C3538	BD3869AS LA4625 NJM2195L NJM7809FA 2SA1162 2SC2712 DTC124EK 1SS355 CCSRCH221J50 CEAT100M50 CEAT101M16 CEAT1R0M50 CEAT220M50 CEAT220M50	R3701-R3704 OTHERS J3701 6P HOUSING WIRE CN3701 SPEAKER TERMINAL A 3701 SPEAKER SHIELD A 3702 SPEAKER SHIELD B PANEL LED ASSY SEMICONDUCTORS D4751 D4752 COILS AND FILTERS F4751-F4753 OTHERS	ADX3041 AKE1060 ANK1710 ANK1711 SML-310MT SML-311UT	
HD AUDIO AMP ASSY EMICONDUCTORS IC3502 IC3504 IC3503 G3501, Q3502, Q3507, Q3510, Q3511 Q3503, Q3504, Q3508 Q3512 D3501-D3504 EAPACITORS C3525 C3501-C3504, C3520, C3528-C3532 C3505, C3526, C3549, C3557, C3564 C3519 C3536 C3537, C3538 C3551, C3552	BD3869AS LA4625 NJM2195L NJM7809FA 2SA1162 2SC2712 DTC124EK 1SS355 CCSRCH221J50 CEAT100M50 CEAT101M16 CEAT1R0M50 CEAT220M50 CEAT22P2M50 CEAT330M25	R3701-R3704 OTHERS J3701 6P HOUSING WIRE CN3701 SPEAKER TERMINAL A 3701 SPEAKER SHIELD A 3702 SPEAKER SHIELD B PANEL LED ASSY SEMICONDUCTORS D4751 D4752 COILS AND FILTERS F4751-F4753 OTHERS	ADX3041 AKE1060 ANK1710 ANK1711 SML-310MT SML-311UT	
HD AUDIO AMP ASSY EMICONDUCTORS IC3502 IC3504 IC3503 Q3501, Q3502, Q3507, Q3510, Q3511 Q3503, Q3504, Q3508 Q3512 D3501-D3504 CAPACITORS C3525 C3501-C3504, C3520, C3528-C3532 C3505, C3526, C3549, C3557, C3564 C3519 C3536 C3537, C3538 C3551, C3552 C3566	BD3869AS LA4625 NJM2195L NJM7809FA 2SA1162 2SC2712 DTC124EK 1SS355 CCSRCH221J50 CEAT100M50 CEAT101M16 CEAT1R0M50 CEAT220M50 CEAT22P2M50 CEAT330M25 CEHAT101M10	R3701-R3704 OTHERS J3701 6P HOUSING WIRE CN3701 SPEAKER TERMINAL A 3701 SPEAKER SHIELD A 3702 SPEAKER SHIELD B PANEL LED ASSY SEMICONDUCTORS D4751 D4752 COILS AND FILTERS F4751-F4753 OTHERS	ADX3041 AKE1060 ANK1710 ANK1711 SML-310MT SML-311UT	
HD AUDIO AMP ASSY EMICONDUCTORS IC3502 IC3504 IC3503 Q3501, Q3502, Q3507, Q3510, Q3511 Q3503, Q3504, Q3508 Q3512 D3501-D3504 CAPACITORS C3525 C3501-C3504, C3520, C3528-C3532 C3505, C3526, C3549, C3557, C3564 C3519 C3537, C3538 C3551, C3552 C3566 C3561	BD3869AS LA4625 NJM2195L NJM7809FA 2SA1162 2SC2712 DTC124EK 1SS355 CCSRCH221J50 CEAT100M50 CEAT101M16 CEAT1R0M50 CEAT220M50 CEAT22P2M50 CEAT330M25 CEHAT101M10 CEHAT101M16	R3701-R3704 OTHERS J3701 6P HOUSING WIRE CN3701 SPEAKER TERMINAL ⚠ 3701 SPEAKER SHIELD A ⚠ 3702 SPEAKER SHIELD B PANEL LED ASSY SEMICONDUCTORS D4751 D4752 COILS AND FILTERS F4751-F4753 OTHERS CN4751 PLUG (3P)	ADX3041 AKE1060 ANK1710 ANK1711 SML-310MT SML-311UT	
HD AUDIO AMP ASSY EMICONDUCTORS IC3502 IC3504 IC3503 G3501, Q3502, Q3507, Q3510, Q3511 Q3503, Q3504, Q3508 G3512 D3501-D3504 EAPACITORS C3525 C3501-C3504, C3520, C3528-C3532 C3505, C3526, C3549, C3557, C3564 C3519 C3537, C3538 C3551, C3552 C3566	BD3869AS LA4625 NJM2195L NJM7809FA 2SA1162 2SC2712 DTC124EK 1SS355 CCSRCH221J50 CEAT100M50 CEAT101M16 CEAT1R0M50 CEAT220M50 CEAT22P2M50 CEAT330M25 CEHAT101M10	R3701-R3704 OTHERS J3701 6P HOUSING WIRE CN3701 SPEAKER TERMINAL A 3701 SPEAKER SHIELD A 3702 SPEAKER SHIELD B PANEL LED ASSY SEMICONDUCTORS D4751 D4752 COILS AND FILTERS F4751-F4753 OTHERS	ADX3041 AKE1060 ANK1710 ANK1711 SML-310MT SML-311UT	

PDP-505PE

	1	•	2		3	•	4
	Mark No.	Description	Part No.		Mark No.	Description	Part No.
	S4801-S4806		VSG1024				
	OTHERS CN4801 6P FFC	CONNECTOR	AKM1208		50 V D	RIVE ASSY	
Α	CIN4601 OF FFC	CONNECTOR	ARIVI1206		[50 X LOGIC		
					SEMICOND		
					IC1002		TC74ACT540FT
					IC1001 IC1003		TC74ACT541FT TC74VHC08FT
_		NTROL ASSY					107411100011
	SEMICONDUC	CTORS	DD57404		CAPACITOR	<u>RS</u>	
	IC4851 D4851-D4853, [04855. D4856	PD5719A DA204U		C1001 C1002-C100	4	CEHAT470M25 CKSSYB104K10
	COILS AND F				RESISTORS		ONCOTETO IIVTO
	F4851- F4856		QTL1011		R1001, R100		RAB4C470J
В	CAPACITORS				R1003, R100 Other Resisto		RAB4C472J RS1/16S###J
	⚠ C4856-C4858		CCSSCH101J50				
	C4854 C4853		CEAT470M50 CKSRYB103K50		OTHERS	P FFC CONNECTOR	AKM1218
	04000		OKOI II D 100K30		CIVIOUI 301	P FFC CONNECTOR	ANIVITZTO
	RESISTORS		5.5.6.6.		\		
	R4858 R4861-R4863		RAB4C182J RS1/16S101J		SEMICOND	IANCE BLOCK]	
	Other Resistors		RS1/16SS###J		IC1103	0010113	BA10393F
	OTHERS				IC1101, IC11	02	TND506MD
		C CONNECTOR	AKM1272		Q1113 Q1102, Q110	03, Q1111, Q1112	2SC4116 2SK3555-01MR
С	⚠ X4851 CERALO		ASS1162		Q1105, Q110		2SK3592-01S
	CN4852 PLUG	(4P)	KM200NA4		O1101 O110	04, Q1107, Q1110	QSZ2
					D1109, D112	2	1SS302
	DANEL	R ASSY				9, D1135, D1136 2, D1104, D1105	1SS355 D1FL40
_	SEMICONDUC					8, D1111, D1114-D1117	D1FL40
	Q4901	<u> </u>	2SC4116		D1120 D112	1, D1127, D1128	D1FL40
	D4902		DA204U			3, D1118, D1125	RF2001T3D
	CAPACITORS				D1129, D113 D1110, D112		RF2001T3D UDZS16(B)
	C4901		CEVW470M6R3		D1110, D112	.5	0D2310(B)
D	C4902 C4903		CKSRYB103K50 CKSSYB102K50		COILS AND		
	C4904		CKSSYF104Z16		L1103, L1105 L1104	5	ATH1119 ATH1155
	RESISTORS				L1102		ATH1156
	Other Resistors		RS1/16SS###J		L1101		LFEA470J
					CAPACITOR	<u>rs</u>	
_	OTHERS CN4901 L-PLU	C (3D)	KM200NA3L			3, C1125-C1127	ACE1175
		E RECEIVER UNIT	RPM7240-H5			4 (100P/630V) 9 (0.22/250V)	ACG1104 ACG1112
					C1134, C113	5 (150P/630V)	ACG1120
					C1101, C110	5, C1116, C1117	CCSRCH331J50
Е		SENSOR ASSY	7		C1136		CEHAT2R2M50
	SEMICONDUC	CTORS			C1102, C111 C1128, C113		CKSRYB105K6R3 CKSSYB104K10
	IC1072 IC1071		MM1522XU MM3012XN			8, C1115, C1122	CKSYB105K25
					RESISTORS	•	
	CAPACITORS		CKSRYB103K50		R1116, R112		RS1/10S1003F
	C1071, C1074, C1072, C1072, C1073	51075	CKSRYF105Z10		R1133, R114		RS1/10S100J
	DE01070D0				R1155, R115	6 6, R1118, R1119, R1123	RS1/10S220J RS1/10S2R2J
	RESISTORS R1073, R1074		RS1/16S1001F		R1126, R115		RS1/10S2R2J
_	Other Resistors		RS1/16SS###J		R1136		RS1/16S1202F
F	OTHERS				R1139		RS1/16S3301F
	OTHERS CN1071 PLUG	(3P)	KM200NA3		R1130		RS1/16S5601F
	3.11071 1 200	(5.)			R1134		RS1/16S8201F
	42			DP-505PE			
•	1	-	2		3	-	4

■ 5	6	- 7 -	8	•
Mark No. Descri	<u>ption</u> <u>Part No.</u>	Mark No. Description	Part No.	
R1113, R1128	RS1MMF101J	IC1402	MIP2E3DMU	
		IC1401, IC1403	PS2701A-1(L)	
R1147, R1148	RS2MMF220J	IC1404	TA76431FR	_
VR1101-VR1104 Other Resistors	CCP1390 RS1/16S###J	Q1401 Q1402	2SA1576A 2SC4116	Α
Other Resistors	NS1/10S###J	Q1402	2504116	
OTHERS		D1406, D1409, D1410	D1FK70	
1101 DRIVE HEATSINK	ANH1628	D1407, D1408	D1FL20U(S)	
1101 SCREW	PMH30P080FTC	D1405	U1ZB330	
		D1401, D1403	UDZS5R6(B)	
[50 X SUS BLOCK]		COILS AND FILTERS		
SEMICONDUCTORS		<u>COILS AND FILTERS</u> <u>↑</u> T1401	ATK1153	
IC1202	HCPL-M611	L1401	LFEA101J	
IC1205 IC1203, IC1207	NJM2872F05 STK795-512A			
IC1206	TND301S	CAPACITORS		В
IC1204, IC1209	TND307TD	C1401, C1402	ACH1361	
	2002	C1404	CEHAT101M16	
Q1209	2SA1727	C1405	CEHAT101M25	
Q1203	2SD1898	C1409	CEHAT331M16	
Q1205	2SK2865	C1403, C1407, C1408, C1411	CKSRYB104K16	
Q1208	DTC124EUA	04.400	01(05)/5101750	
Q1201	HN1B04FU	C1406	CKSRYF104Z50	
D1212	1SS302	RESISTORS		
D1212 D1211, D1213	1SS355	R1405, R1406, R1408-R1410, R1414	RS1/10S3602F	
D1204, D1217	D1FL40	R1420	RS1/16S1101F	
D1201, D1207	EC10QS04	R1403	RS1/16S2702F	0
D1208	UDZS5R6(B)	R1401, R1404	RS1/16S4701F	С
		R1417	RS1/16S7500F	
COILS AND FILTERS				
L1204, L1205	ATH1112	VR1401	CCP1390	
L1202, L1207	LFEA100J	Other Resistors	RS1/16S###J	
L1203, L1206	LFEA470J	OTHERS		
		1001 DRIVE SIRICON SHEET	AEH1062	_
CAPACITORS		1001 PLATE X	ANG2664	
C1214-C1216, C1228-C123	30 ACE1163	1001 DRIVE HEATSINK A	ANH1613	
C1245	ACE1173	1001 SCREW	PMZ30P080FTC	
C1209 (0.1/630V)	ACG1092	1002 SCREW	PMB30P060FNI	
C1219, C1231	ACH1415			D
C1246	CEHAT221M25			
0	0=1.1=1=1.	50 V DDIVE 400V		
C1201, C1203, C1207, C12 C1223, C1224, C1238, C12		50 Y DRIVE ASSY		
C1223, C1224, C1238, C12 C1212, C1213, C1225, C12		<u>OTHERS</u>		
C1243	CKSRYB104K16	2002 CARD SPACER	AEC1957	_
C1202, C1205, C1206, C12			AEH1062	
0.202, 0.200, 0.200, 0.2		2001 PLATEY	ANG2557	
RESISTORS		2001 DRIVE HEATSINK A	ANH1613	
R1230	ACN1166	2001 SCREW	PMZ30P080FTC	
R1208, R1260, R1261	ACN1174	2002 SCREW	PMB30P060FNI	
R1255	ACN1178	2002 CONEVV	I MBOOT COOT IN	_
R1256	ACN1198			Е
R1226, R1251	RS1MMF331J	[50 Y LOGIC BLOCK]		
D4005 B4000	D0014145454	SEMICONDUCTORS		
R1235, R1236	RS2MMF121J	IC2002	TC74ACT540FT	
Other Resistors	RS1/16S###J	IC2001, IC2003	TC74ACT541FT	
OTHERS		IC2005, IC2006	TC74VHC08FT	
KN1201-KN1205, KN1208	ANK-142	IC2004	TC74VHC541FT	-
KN1210-KN1212, KN1214	ANK-142 ANK-142			
GROUND PLATE		<u>CAPACITORS</u>		
CN1201 CONNECTOR	B12B-EH	C2001	CEHAT470M16	
		C2007	CKSRYB471K50	
		C2002-C2006, C2008	CKSSYB104K10	F
IFO V D DOON DI COIT		RESISTORS		
[50 X D-DCON BLOCK]		R2045	RAB4C0R0J	
<u>SEMICONDUCTORS</u>		R2055	RAB4C100J	
			-	43
■ 5	- 6	PDP-505PE 7	8	

	1		2			3		4
	Mark No.	Description	Part No.	IV.	lark No.	Descripti	ion	Part No.
	R2025		RAB4C101J			C2205, C2216, C2217		CCSRCH331J50
	R2018, R2019		RAB4C102J		02202,	52205, 02210, 02217		00011011001000
	R2002, R2004,	R2013-R2015	RAB4C470J		C2236			CEHAT2R2M50
Α					C2203,	C2218		CKSRYB105K6R3
	R2005, R2006,	R2012, R2016, R2017	RAB4C472J		C2230,	C2232, C2233, C2235	ı	CKSSYB104K10
	Other Resistors	}	RS1/16S###J		C2201,	C2208, C2215, C2219		CKSYB105K25
	<u>OTHERS</u>			<u> </u>	RESIST			
	CN2001 50P (CONNECTOR	AKM1201		R2240,			RS1/10S1003F
					R2244-F			RS1/10S100J
					R2260,	12201 R2211, R2213, R2220	R2221	RS1/10S220J RS1/10S2R2J
	[50 Y SCAN BL	OCK1			R2253,		, 112221	RS1/10S2R2J
	SEMICONDU				r iLLCO,	12200		1101/10021120
		3-IC2106, IC2108, IC210	9 HCPL-M611		R2234			RS1/16S1202F
В	IC2111, IC2112		PST3638UR		R2235			RS1/16S3301F
В	IC2102, IC2107		TC74ACT540FT		R2233			RS1/16S5601F
					R2242	20000		RS1/16S8201F
	COILS AND F	ILTERS			R2215,	32230		RS1MMF101J
	L2101-L2103		LFEA100J		R2256,	22250		RS2MMF220J
						-VR2204		CCP1390
	CAPACITORS	<u>5</u>			Other R			RS1/16S###J
	C2104, C2111		ACH1413					
	C2101, C2107,	C2113	CEHAT221M16	<u>(</u>	OTHERS	<u> </u>		
	C2118, C2119 C2116, C2117		CKSRYB102K50 CKSRYB471K50		2201 DF	RIVE HEATSINK		ANH1628
	C2102, C2103,	C2105 C2106	CKSSYB104K10		2201 SC	REW		PMH30P080FTC
	02102, 02100,	02100, 02100	OROOT BTO-INTO					
С	C2108-C2110,	C2112, C2114	CKSSYB104K10			C DI OOKI		
						S BLOCK] NDUCTORS		
				3	IC2302	NDUCTORS		LICDI MC11
	<u>RESISTORS</u>				IC2302			HCPL-M611 NJM2872F05
	R2138, R2141		RAB4C0R0J		IC2303,	IC2307		STK795-513A
_	R2121, R2128 Other Resistors		RAB4C472J RS1/16S###J		IC2310			TC7SH04FU
	Other nesistors	•	NO 1/100###J		IC2301,	IC2304		TND301S
	OTHERS							T11000TD
		02 15P CONNECTOR	AKM1200		IC2311 Q2313			TND307TD 2SA1727
					Q2313 Q2310			2SC4081
					Q2303			2SD1898
D	[50 Y RESONA				Q2302			2SK3325-Z
	SEMICONDU(<u>CTORS</u>						
	IC2211		BA10393F		Q2312			2SK3403
	IC2201, IC2202 Q2213	2	TND506MD 2SC4081		Q2309			HN1B04FU
	Q2213 Q2205, Q2206,	O2208 O2209	2SK3555-01MR		D2322 D2312,	72225		1SS302 1SS355
_	Q2202, Q2203,		2SK3592-01S		D2312,	52023		D1FL40
								22.0
	Q2201, Q2204,	Q2207, Q2210	QSZ2		D2319			EC10QS04
	D2209, D2223	Doogo Bassa	1SS302		D2320			RF051UA1D
	D2228, D2229,		1SS355		D2323			UDZS16(B)
	D2202-D2205, D2212-D2214,		D1FL40 D1FL40		D2306			UDZS5R6(B)
Ε	DZZ 1Z-DZZ 14,	D2210-D2219	DTI L40		^OII	ND FILTERS		
_	D2221, D2222		D1FL40	_	L2306, I			ATH1112
		D2211, D2220, D2225	RF2001T3D		L2304, I			LFEA100J
	D2230		RF2001T3D		L2308			LFEA101J
	D2210, D2224		UDZS16(B)			.2302, L2305		LFEA470J
	COIL C AND F	III TEDO						
	COILS AND F	ILIERS	ATU4440	9	CAPACI			
	L2203, L2205 L2202		ATH1119 ATH1155			C2311, C2327, C2329,	C2330	ACE1163
	L2202 L2204		ATH1156		C2314	2.22/100\4		ACE1165
	L2201		LFEA470J		C2346 (C2336	0.33/100V)		ACG1118 ACH1393
					C2336 C2316,	C2331		ACH1393 ACH1415
_	CAPACITORS	<u> </u>			02010,	J00 I		,10111410
F	C2212-C2214,	C2226, C2227	ACE1175		C2303,	C2342		ACH1416
	C2211, C2224		ACG1104		C2343			CCSRCH102J50
	C2210, C2223		ACG1112		C2306			CEHAT221M25
	C2238, C2240	(150P/630V)	ACG1120		C2308,	C2324, C2339, C2340	, C2349	CEHAT470M16
	44			PDP-505PE		_		
	1		2			3		4

	5	6		Ī	7	-	8	
Mark No.	Description	Part No.		Mark No.	De	escription	Part No.	
C2304, C23	20, C2338, C2348	CEHAT470M25		C2414		•	CEHAT221M16	
,	,			C2410			CEHAT221M25	
	22, C2323, C2325, C2341	CKSRYB104K16		C2411			CEHAT331M25	
C2347	07.00044	CKSRYB105K6F	3	C2420	2440		CEHAT470M2A	
C2301, C23	07, C2344	CKSRYF104Z50		C2409, C2	2419		CKSRYB103K50	
RESISTOR	S			C2402. C2	2412. C241	3, C2423, C2425	CKSRYB104K16	
R2332	<u> </u>	ACN1166			436, C2441		CKSRYB104K16	
R2364, R23	65	ACN1174			2421, C242		CKSRYB105K6R3	
R2367		RS1/10S0R0J			2408, C241	6, C2418, C2426		
R2368		RS1/10S151J		C2429			CKSRYF104Z50	
R2309		RS1MMF132J						
R2310, R23	11	RS1MMF472J		RESISTO	RS			
R2312, R23	13, R2322, R2325	RS3LMF100J		R2429			ACN1225	
	52, R2358, R2359	RS3LMF1R8J		R2435, R2			RS1/10S2202F	
Other Resist	tors	RS1/16S###J		R2402-R2	404		RS1/10S3902F	
OTHERS				R2442 R2468			RS1/16S1201F RS1/16S1202F	
	2305, KN2310, KN2312	ANK-142		112400			1101/10012021	
	12316 GROUND PLATE	ANK-142		R2424			RS1/16S2001F	
•	ONNECTOR	B11B-EH		R2420, R2	2427, R243	8	RS1/16S2201F	
				R2451			RS1/16S2202F	
				R2467	2450		RS1/16S3301F	
[50 Y D-DCO				R2452, R2	2453		RS1/16S3302F	
SEMICONE	JUCTURS	DA100505		R2457-R2	460		RS1/16S4701F	
IC2406 IC2401		BA10358F MIP2E3DMC		R2506			RS3LMF151J	
	405, IC2407, IC2409	PS2701A-1(L)		VR2401, V			CCP1390	
IC2410-IC24	· · · · · · · · · · · · · · · · · · ·	TA76431FR		Other Res	istors		RS1/16S###J	
Q2402, Q24	107	2SA1037K		OTHERS				
00440		0044400		2401 HE	ATSINK		ANH1614	
Q2410 Q2417		2SA1163 2SA2005		2401 SCI			BBZ30P080FTC	
Q2405		2SC2713						
	13, Q2416, Q2419	2SC4081						
Q2403		2SD1664						
00404 004	104	0001000		_		PPLY UNIT		
Q2401, Q24 Q2415	104	2SD1898 HN1C01FU		This assembl	ly has no se	ervice part.		
D2430		1SS301						
D2410, D24	19, D2436	1SS302						
D2409, D24	18	1SS355						
D0400		D1EV70						
D2402 D2404-D240	77	D1FK70 D1FL20U(S)						
D2404 D240	J1	D1FL40						
D2403		EC8FS6						
D2401		U1ZB330						
D0/10 D0/	13 D0//00	UDZS15(B)						
D2412, D24 D2437, D24	·	UDZS15(B) UDZS33(B)						
D2432		UDZS4R3(B)						
D2423, D24	31	UDZS5R6(B)						
00110 4417) FILTERO							
COILS AND	J FILI EKS	ATK1150						
		ATK1156 ATK1157						
⚠ T2401		ATK1157						
L2402		LFEA100J						
L2401		LFEA101J						
L2403		LFEA470J						
CAPACITO	RS							
CAPACITO	<u> </u>	ACH1360						
C2401		ACH1361						
C2427		CEHAT100M50						
C2403	07.00447	CEHAT101M16						
C2405, C24	07, C2417	CEHAT101M25						
			855	OFDE	1			45
	5 =	6	PDP-5		7	_	8	.0

В

С

D

E

6. ADJUSTMENT



Α

1. At shipment, the unit is adjusted to its best conditions. Normally, it is not necessary to readjust even if an assembly is replaced. If the adjustment is shifted or if it becomes necessary to readjust because of part replacement, etc., perform the adjustment as described below.

3

2. Any value changed in Service/Factory mode will be stored in memory as soon as it is changed. Before readjustment, take note of the original values for reference in case you need to restore the original settings.

2

3. Use a stable AC power supply.

6.1 ADJUSTMENT REQUIRED WHEN THE SET IS REPAIRED OR REPLACED

■ When any of the following as:	sembli	es is replaced
POWER SUPPLY Unit	→	No adjustment required
DIGITAL VIDEO Assy	→	Writing of backup data is required. Refer to the "7.1.7 BACKUP WHEN THE MAIN UNIT IS ADJUSTED."
50 X DRIVE Assy	→	No adjustment required
50 Y DRIVE Assy	→	No adjustment required
Service Panel	→	Refer to the "6.4 METHOD FOR REPLACING THE SERVICE PANEL ASSY."
Other assemblies	→	No adjustment required
■ When any part in the followin	g asse	mblies is replaced
POWER SUPPLY Unit	→	The assembly must be replaced as a unit, and no part replacement is allowed.
DIGITAL VIDEO Assy	→	No adjustment required
50 X DRIVE Assy (IC1101, IC1102)	→	Refer to the "6.2 DRIVE ASSY ADJUSTMENT."
50 Y DRIVE Assy (IC2201, IC2202)	→	Refer to the "6.2 DRIVE ASSY ADJUSTMENT."

46

PDP-505PE

6.2 DRIVE ASSY ADJUSTMENT

■ How to readjust the timing of the control signals when the DRIVE Assy TND506MD is to be replaced

As there is a large difference in delay time among the individual TND506MDs, timing adjustment has been made on each TND506MD in the unit process. If the TND506MD is replaced on the X or Y Drive Assy, readjustment of the timing of the control signals is required.

7

8

В

С

D

Ε

F

Assy	Replaced IC	Signal for which Readjustment is Required
X DRIVE	IC1101	XSUS-U2 & XSUS-D2
A DRIVE	IC1102	XSUS-U1 & XSUS-D1
V DDIVE	IC2201	YSUS-U1 & YSUS-D1
Y DRIVE	IC2202	YSUS-U2 & YSUS-D2

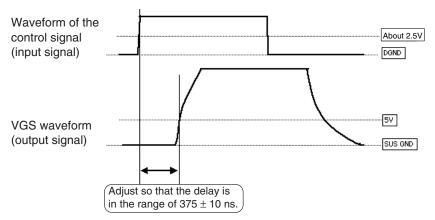
How to adjust

Adjust the timing between the startup of the control signals of SUS-U1, SUS-D1, SUS-U2, and SUS-D2 and the startup of the voltage between the gate and the source of the output FET, with the VR resistors that are inserted in the signal line in series. When adjusting, set the unit to Drive OFF mode, and Vsus to 0 V. (For details on how to set to Drive OFF mode, see "7.1.6 Power on/off function for the large-signal system".)

Specified values for adjustment and adjustment points

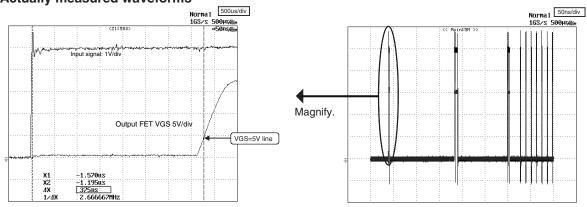
			X DRIVE			Y DRIVE	
Signal Name	Set Value for Delay Time	Input Signal	Output Signal	Adjustment VR	Input Signal	Output Signal	Adjustment VR
SUS-U1	375ns ± 10ns	K1005	Q1108	VR1103	K2025	Q2202	VR2201
SUS-D1	$375 \text{ns} \pm 10 \text{ns}$	K1009	Q1112	VR1104	K2027	Q2205	VR2202
SUS-U2	375ns ± 10ns	K1008	Q1103	VR1101	K2022	Q2208	VR2203
SUS-D2	375ns ± 10ns	K1006	Q1105	VR1102	K2024	Q2212	VR2204

Note: Connect GND of the probe with DGND (DGND: X Drive Assy: K1020, Y Drive Assy: K2010) for input signal. For outputting a signal, obtain a signal from the FET gate terminal. For adjustment, magnify any pulse in the waveform.

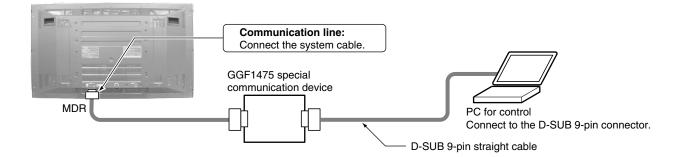


Actually measured waveforms

5



47

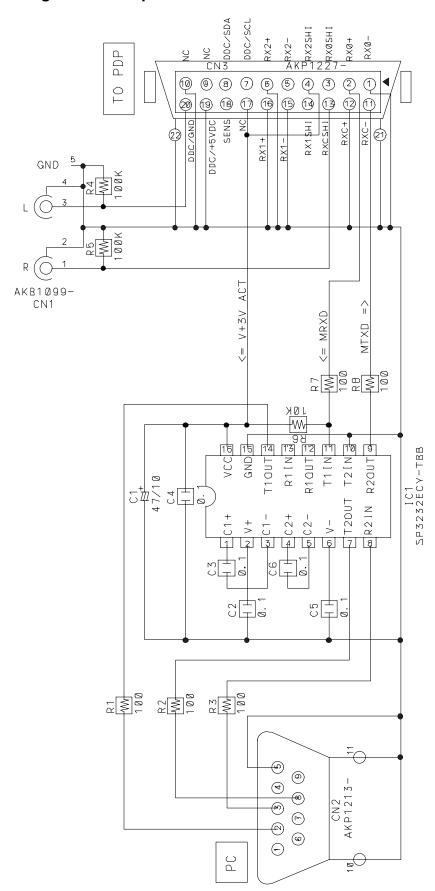


• Schematic diagram of the special communication device

6

7

5



8

В

С

D

Ε

F

49

8

PDP-505PE

5

• RS-232C Commands for the module microcomputer

Α

В

Command Name		Function	Validity of Validity	f direct num Lower limit	
[A]					
ABL	ABL ADJUSTMENT	Adjusting the upper limit of the power	0	000	255
ABN	PEAK ABL NO	Peak ABL function OFF			
ABY	PEAK ABL YES	Peak ABL function ON			
AMN	AUDIO MUTE NO	Turning off the audio muting			
AMY	AUDIO MUTE YES	Turning on the audio muting			
[B]					
BAL	BALANCE ADJUSTMENT	Adjusting the audio balance	0	98	158
BAS	BASS ADJUSTMENT	Adjusting the audio bass	0	121	135
BCP	BACKUP COPY	Copying the backup data in the EEPROM			
[C]	OLEAD HOUR METER	Olassife and state of the decision we start			
CHM	CLEAR HOUR METER	Clearing data of the hour meter			
CPD	CLEAR POWER DOWN	Clearing power-down information			
CPM	CLEAR PLUSE METER	Clearing data of the pulse meter			
CSD	CLEAR SHUT DOWN	Clearing shutdown information			
[D]	DDIVE OFF	Dutation at #	<u> </u>		
DRF	DRIVE ON	Driving off	-		
DRN	DRIVE ON	Driving on	1		
[F]	EDECENCY VIDEO 5011-	Cotting the frequency in Meets made to 50 Hz (VID50)	-		
F50	FREQENCY VIDEO 50Hz	Setting the frequency in Mask mode to 50 Hz (VIDEO)			
F60	FREQENCY VIDEO 60Hz	Setting the frequency in Mask mode to 60 Hz (VIDEO)			
F61	FREQENCY PC 60Hz	Setting the frequency in Mask mode to 60 Hz (PC)			
F70	FREQUENCY PC 70Hz	Setting the frequency in Mask mode to 70 Hz (PC)			
F72	FREQENCY VIDEO 72Hz	Setting the frequency in Mask mode to 72 Hz (VIDEO)			
F75	FREQENCY 75Hz	Setting the frequency in Mask mode to 75 Hz (VIDEO)			
FAJ	FINISH ADJUSTMENT	Determining the flag of the DIGITAL VIDEO Assy adjustment in "adjustment			
		is completed"			
FCN	FOCUS NO	Turning the FOCUS function off			
FCY	FOCUS YES	Turning the FOCUS function on			
[G]					
GAJ	GET ADJUSTMENT	Obtaining various adjustment values			
GNP	GET NUMBER PANEL	Obtaining the serial no. of the panel			
GPD	GET POWER-DOWN	Obtaining the power-down-point log			
GPW	GET PANEL WHITE BALANCE	Obtaining the panel white-balance adjustment values			
GS1	GET STATUS 1	Obtaining information on the unit, such as the software version			
GS2	GET STATUS 2	Obtaining information on the status of the unit, such as the temperature	1		
GSD	GET SHUT DOWN	Obtaining information on shutdown			
[M]					
M00	MASK MODE 0	Turning the Mask function off			
M01	MASK MODE 1	White raster (change in luminance level)			
M02	MASK MODE 2	White rasterzigzag, exact reversescangraywhite raster			
M03	MASK MODE 3	HLzigzag, exact reversescangraywhite raster			
M04	MASK MODE 4	White rasterzigzag, exact reversescangraywhite raster			
M10	MASK MODE 10	H ramp (slant 1)			
M11	MASK MODE 11	H ramp (slant 4)			
M12	MASK MODE 12	H ramp (slant 1 shifting)			
M13	MASK MODE 13	H ramp (slant 4 shifting)			
M14	MASK MODE 14	V ramp (slant 1)			
M15	MASK MODE 15	Slanting ramp			
M20	MASK MODE 20	Window (for WB adjustment, Hi = 870, Lo = 102)			
M21	MASK MODE 21	Window (for WB adjustment, Hi = 1023, Lo = 102)			
M22	MASK MODE 22	Window (for measuring the peak luminance during WB adjustment, Hi = 1023)	-		
M23	MASK MODE 23	Window (for measuring the peak luminance, Hi = 1023, 4%)			
M24	MASK MODE 24	Window (for measuring the peak luminance, Hi = 1023, 1.25%)	-		
M25	MASK MODE 25	Window (vertical line with 1/7-width for measuring the stress)			
M26	MASK MODE 26	Window (magenta, green, and stripe for check)	-		
M27	MASK MODE 27	Window (green,magenta, and stripe for check)			
M28	MASK MODE 28	Window (black & white [1 x 8], checker, for EMG check)			
M29	MASK MODE 29	Window (for WB adjustment, magenta = 512, yellow = 512)			
M2E	MASK MODE 2E	Wiper for erasing afterimage	-		
M2F	MASK MODE 2F	Mask for warning of cable disconnection			
M30	MASK MODE 30	ColorBar	-		
M31	MASK MODE 31	Slanted lines (for checking cable disconnection)	-		
M51	MASK MODE 51	Raster-white			
M52	MASK MODE 52	Raster-red			
M53	MASK MODE 53	Raster-green			
		Raster-blue	I .	I.	
M54	MASK MODE 54				
	MASK MODE 54 MASK MODE 55 MASK MODE 56	Raster-black Raster-cyan 1023			

3

50

PDP-505PE

1 2 3 4

Command Name		Function		Validity of direct numeric input			
	Command Name	Function		Lower limit	Upper limit		
[M]		B					
M58	MASK MODE 58	Raster-yellow 1023					
M59	MASK MODE 59	Raster-cyan 274 Raster-flesh color 50					
M60	MASK MODE 60 MASK MODE 61						
M61 M62	MASK MODE 61	Raster-light purple_50 Raster-sky blue_50					
M63	MASK MODE 62	Raster-red 779					
M64	MASK MODE 64	Raster-cyan 218					
M65	MASK MODE 65	Raster-cyan 448					
M66	MASK MODE 66	Raster-flesh color 43					
M67	MASK MODE 67	Raster-red 640					
M68	MASK MODE 68	Raster-magenta 98					
M69	MASK MODE 69	Raster-sky blue 1_43					
M70	MASK MODE 70	Raster-sky blue 2_43					
M71	MASK MODE 71	Raster-light purple_43					
M72	MASK MODE 72	Raster-blue 960					
M73	MASK MODE 73	Raster-yellow 512					
M74	MASK MODE 74	Raster-gray 512 (reservation)					
MTN	MUTE NO	Canceling panel muting					
MTY [N]	MUTE YES	Panel muting					
NGN	NG NO	SD function off					
NMN	NEGATIVE MODE NO	Canceling negative-positive inversion display					
NMY	NEGATIVE MODE YES	Negative-positive inversion display					
[P]		<u> </u>					
PBH	PANEL BLUE HIGH	Panel white-balance adjustment: Blue highlight	0	000	511		
PBL	PANEL BLUE LOW	Panel white-balance adjustment: Blue low light	0	000	999		
PCN	PC RGB NO	Setting input-signal type to video					
PCY	PC RGB YES	Setting input-signal type to PC					
PDN	POWER DOWN NO	The PD signal is not passed through the POWER SUPPLY Assy.					
PDY	POWER DOWN YES	The PD signal is passed through the POWER SUPPLY Assy.					
PGH	PANEL GREEN HIGH	Panel white-balance adjustment: Green highlight	0	000	511		
PGL	PANEL GREEN LOW	Panel white-balance adjustment: Green low light	0	000	999		
PLA	BRIGHT ENHANCE A	Center luminance-compensation function on (no correspondence with APL)					
PLB	BRIGHT ENHANCE B	Center luminance-compensation function on (in correspondence with APL, pattern 1)					
PLC	BRIGHT ENHANCE C	Center luminance-compensation function on (in correspondence with APL, pattern 2)					
PLN	BRIGHT ENHANCE NO	Center luminance-compensation function off					
PMB	PANEL MAIN BRIGHTNESS	Panel white-balance adjustment: Main brightness		000	999		
PMC	PANEL MAIN CONTRAST	Panel white-balance adjustment: Main contrast		000	511		
POF	POWER OFF	Power off					
PON	POWER ON	Power on					
PRH	PANEL RED HIGH	Panel white balance adjustment-red highlight	0	000	511		
PRL	PANEL RED LOW	Panel white-balance adjustment: Red low light	0	000	999		
[S]							
SCN	SYSTEM CABLE NO	Prohibiting monitoring of cable-disconnection detection					
SCY	SYSTEM CABLE YES	Permitting monitoring of cable-disconnection detection					
SPN	SCAN PROTECT NO	SCAN IC protection process OFF					
SPY	SCAN PROTECT YES	SCAN IC protection process ON					
SRN	SRS NO	SRS function off		-			
SRY	SRS YES	SRS function on		-			
[T]	TDUDAGGASG	Tu-Dana function off		-			
TBN	TRUBASS NO	TruBass function off		-			
TBY	TRUBASS YES	TruBass function on		101	105		
TRE	TREBLE ADJUSTMENT	Audio treble adjustment	0	121	135		
[U]	LINI AD ILIOTAFAIT	Determining the first feather DIGITAL VIDEO Assessed in the standing to the					
UAJ	UN-ADJUSTMENT	Determining the flag for the DIGITAL VIDEO Assy adjustment in "not adjusted"					
[V] VOF	Vofs ADJUSTMENT	Vofs voltage reference-value adjustment	0	000	255		
VOL	VOLUME	Audio volume adjustment	0	000	060		
VSU	Vsus ADJUSTMENT	Vsus voltage reference-value adjustment	0	000	255		
[W]	V SUS ADOUGH WILINI	vous voitage reference-value aujustifietit		300	200		
WA1	WB APL 1	Setting the APL-interlocking pattern for white balance to 1.		+			
WA1 WA2	WB APL 1			 			
WA2 WA3	WB APL 3	Setting the APL-interlocking pattern for white balance to 2. Setting the APL-interlocking pattern for white balance to 3.		+			
WA4	WB APL 4	Setting the APL-interlocking pattern for white balance to 3. Setting the APL-interlocking pattern for white balance to 4.		+			
WAN	WB APL 4	Setting the APL-interlocking pattern for white balance to 4. Setting the APL-interlocking for white balance to OFF.		1			
WAY	WB APL YES	Setting the APL-interlocking for white balance to OPF. Setting the APL-interlocking for white balance to ON.		1			
WIN	WB INITIALIZE NO	Panel White-Balance Initialization mode OFF		+			
**11.4	WB INITIALIZE YES	Panel White-Balance Initialization mode ON		 			

51

8

В

С

Ε

PDP-505PE 7

	Command Name	Function	Validity	Validity of direct numeric input		
	Command Name	Pulicilon	Validity	Lower limit	Upper limit	
[X]						
XD1	XSUS-D-1	XSUS-D-1 adjustment	0	000	255	
XD2	XSUS-D-2	XSUS-D-2 adjustment	0	000	255	
XU1	XSUS-U-1	XSUS-U-1 adjustment	0	000	255	
XU2	XSUS-U-2	XSUS-U-2 adjustment	0	000	255	
[Y]			0	000	255	
YD1	YSUS-D1-1	YSUS-D1-1 adjustment				
YD2	YSUS-D1-2	YSUS-D1-2 adjustment	0	000	255	
YD3	YSUS-D2-1	YSUS-D2-1 adjustment	0	000	255	
YD4	YSUS-D2-2	YSUS-D2-2 adjustment	0	000	255	
YU1	YSUS-U-1	YSUS-U-1 adjustment	0	000	255	
YU2	YSUS-U-2	YSUS-U-2 adjustment	0	000	255	

3

В

С

■ Command description

Command	Function
GAJ	Obtaining various adjustment values
GNP Obtaining serial number of the panel side	
GPD Obtaining power-down-point log	
GPW Obtaining panel white-balance adjustment values	
GS1 Obtaining information on the unit, such as the software vers	
GS2 Obtaining information on the status of the unit	
GSD	Obtaining information on shutdown

GAJ: Obtaining data on ABL setting values, electronic-control adjustment values, and drive-system adjustment values

Order	Data	Size	Remarks
1	ABL table currently used	3 bytes	AB1 - AB3
2	ABL adjustment value	3 bytes	000 - 255
3	Vsus adjustment value	3 bytes	000 - 255
4	Vofs adjustment value	3 bytes	000 - 255
5	X-SUS-U1 adjustment value (XU1)	3 bytes	000 - 255
6	X-SUS-U2 adjustment value (XU2)	3 bytes	000 - 255
7	X-SUS-D2 adjustment value (XD2)	3 bytes	000 - 255
8	X-SUS-D1 adjustment value (XD1)	3 bytes	000 - 255
9	Y-SUS-U1 adjustment value (YU1)	3 bytes	000 - 255
10	Y-SUS-U2 adjustment value (YU2)	3 bytes	000 - 255
11	Y-SUS-D1-2 adjustment value (YD2)	3 bytes	000 - 255
12	Y-SUS-D1-1 adjustment value (YD1)	3 bytes	000 - 255
13	Y-SUS-D2-2 adjustment value (YD4)	3 bytes	000 - 255
14	Y-SUS-D2-1 adjustment value (YD3)	3 bytes	000 - 255

Note: Ignore the 2-byte checksum at the end.

Ε

52

PDP-505PE

GNP: Obtaining serial number of the panel side

Order	Data	Size	Remarks
1	Panel serial number	15 bytes	Alphanumeric, space, underbar, slash

Note: Ignore the 2-byte checksum at the end.

5

GPD: Obtaining power-down-point log on the panel

Order	Data	Size	Remarks
1	Latest "1st PD" data	1 byte	0-D or F
2	Latest "2nd PD" data	1 byte	0-D or F
3	Data of hour meter for the latest PD	7 bytes	1st-5th byte: Hour, 6th-7th byte: Minute
4	Data on temperature for the latest PD (TEMP1)	3 bytes	000 - 255
5	Second latest "1st PD" data	1 byte	0-D or F
6	Second latest "2nd PD" data	1 byte	0-D or F
7	Data of hour meter for the second latest PD	7 bytes	1st-5th byte: Hour, 6th-7th byte: Minute
8	Data on temperature for the second latest PD (TEMP1)	3 bytes	000 - 255
9	Third latest "1st PD" data	1 byte	0-D or F
10	Third latest "2nd PD" data	1 byte	0-D or F
11	Data of hour meter for the third latest PD	7 bytes	1st-5th byte: Hour, 6th-7th byte: Minute
12	Data on temperature for the third latest PD (TEMP1)	3 bytes	000 - 255
13	Fourth latest "1st PD" data	1 byte	0-D or F
14	Fourth latest "2nd PD" data	1 byte	0-D or F
15	Data of hour meter for the fourth latest PD	7 bytes	1st-5th byte: Hour, 6th-7th byte: Minute
16	Data on temperature for the fourth latest PD (TEMP1)	3 bytes	000 - 255
17	Fifth latest "1st PD" data	1 byte	0-D or F
18	Fifth latest "2nd PD" data	1 byte	0-D or F
19	Data of hour meter for the fifth latest PD	7 bytes	1st-5th byte: Hour, 6th-7th byte: Minute
20	Data on temperature for the fifth latest PD (TEMP1)	3 bytes	000 - 255
21	Sixth latest "1st PD" data	1 byte	0-D or F
22	Sixth latest "2nd PD" data	1 byte	0-D or F
23	Data of hour meter for the sixth latest PD	7 bytes	1st-5th byte: Hour, 6th-7th byte: Minute
24	Data on temperature for the sixth latest PD (TEMP1)	3 bytes	000 - 255
25	Seventh latest "1st PD" data	1 byte	0-D or F
26	Seventh latest "2nd PD" data	1 byte	0-D or F
27	Data of hour meter for the seventh latest PD	7 bytes	1st-5th byte: Hour, 6th-7th byte: Minute
28	Data on temperature for the seventh latest PD (TEMP1)	3 bytes	000 - 255
29	Eighth latest "1st PD" data	1 byte	0-D or F
30	Eighth latest "2nd PD" data	1 byte	0-D or F
31	Data of hour meter for the eighth latest PD	7 bytes	1st-5th byte: Hour, 6th-7th byte: Minute
32	Data on temperature for the eighth latest PD (TEMP1)	3 bytes	000 - 255

Notes: • Ignore the 2-byte checksum at the end.

• For details, see "Description on power-down."

53

В

С

D

Ε

PDP-505PE

• Description on power-down

Power-down Point		
No power-down		
Not used (for MR-POWER)		
Panel-POWER SUPPLY		
SCAN		
SCN-5V		
Y-DRIVE		
Y-DCDC		
Y-SUS		
ADR		
X-DRIVE		
X-DCDC		
X-SUS		
DIG-DCDC		
IC4		
Reservation		
Power-down point unidentified		

В

С

GPW: Obtaining panel white-balance adjustment values

Order	Data	Size	Remarks
1	W/B table currently used	3 bytes	PT1 - PT3
2	Main contrast	4 bytes	0000 - 0511
3	Red contrast of W/B adjustment value	4 bytes	0000 - 0511
4	Green contrast of W/B adjustment value	4 bytes	0000 - 0511
5	Blue contrast of W/B adjustment value	4 bytes	0000 - 0511
6	Main brightness	4 bytes	0000 - 1023
7	Red brightness of W/B adjustment value	4 bytes	0000 - 1023
8	Green brightness of W/B adjustment value	4 bytes	0000 - 1023
9	Blue brightness of W/B adjustment value	4 bytes	0000 - 1023

3

Note: Ignore the 2-byte checksum at the end.

GS1: Obtaining information on the unit, such as the software version

Order	Data	Size
1	Display data	3 bytes
2	Version of the module microcomputer	4 bytes
3	IC4-MANTA version	4 bytes
4	Sequence version (43VIDEO)	4 bytes
5	Sequence version (43PC)	4 bytes
6	Sequence version (50VIDEO)	4 bytes
7	Sequence version (50PC)	4 bytes

Notes: • Ignore the 2-byte checksum at the end.

• If a Media Receiver (MR) is connected, the version of the microcomputer inside the MR is displayed at the end. (Refer to the service manual of the Media Receiver.)

(Reference) GS2: Obtaining information on the status of the unit

Order	Data	Size	Remarks
1	Notifying that the unit is shifting to Standby mode	1 byte	1: OK for shifting to Standby
2	Whether or not the main unit has been adjusted	1 byte	0: Adjusted, 1: Not adjusted
3	With/without backup for adjustment values	1 byte	0: With backup, 1: Without backup
4	Data on power-down	2 bytes	1st byte: 1st PD, 2nd byte: 2nd PD
5	Data on temperature (TEMP1)	3 bytes	000 - 255
6	Abnormality in RST2 (power decrease of DC-DC converter)	1 byte	0: Normal, 1: SD process completed, 2: In the process of SD warning
7	IC4 communication failure	1 byte	0: Normal, 1: SD process completed, 2: In the process of SD warning
8	EEPROM communication failure	1 byte	0: Normal, 1: SD process completed, 2: In the process of SD warning
9	Audio failure	1 byte	0: Normal, 1: SD process completed, 2: In the process of SD warning
10	Volume IC communication failure	1 byte	0: Normal, 1: SD process completed, 2: In the process of SD warning
11	Backup ROM communication failure	1 byte	0: Normal, 1: SD process completed, 2: In the process of SD warning
12	Data on temperature (TEMP1) not obtained	1 byte	0: Normal, 1: SD process completed, 2: In the process of SD warning
13	Operational status of panel protection mechanism	1 byte	0: Protection mechanism not activated, 1: Protection mechanism activated
14	Reservation	2 bytes	**
15	Accumulated time of cleared hour-meter (*1)	7 bytes	1st-5th byte: Hour, 6th-7th byte: Minute
16	Hour-meter (clearable) (*2)	7 bytes	1st-5th byte: Hour, 6th-7th byte: Minute

Notes: • Ignore the 2-byte checksum at the end.

- The data expected to be used for service may be "5. Data on temperature" and "15,16. Hour meter".
- (*1) Each time hour-meter data are cleared, the accumulated time data are updated. The total for data items 15 and 16 is the total power-on time after shipment. The accumulated time of cleared hour-meter data cannot be cleared.
- (*2) The hour-meter data that indicate driving hours of the panel are displayed on the Factory menu. Upon shipment, the data are cleared.

54

PDP-505PE

GSD: Obtaining information on shutdown

5

Order	Data	Size	Remarks
1	Latest SD data	1 byte	0 - 5
2	Latest SD subcategory data	1 byte	0 - 3
3	Data of hour meter for the latest SD	7 bytes	1st-5th byte: Hour, 6th-7th byte: Minute
4	Data on temperature for the latest SD (TEMP1)	3 bytes	000 - 255
5	Second latest SD data	1 byte	0 - 5
6	Second latest SD subcategory data	1 byte	0 - 3
7	Data of hour meter for the second latest SD	7 bytes	1st-5th byte: Hour, 6th-7th byte: Minute
8	Data on temperature for the second latest SD (TEMP1)	3 bytes	000 - 255
9	Third latest SD data	1 byte	0 - 5
10	Third latest SD subcategory data	1 byte	0 - 3
11	Data of hour meter for the third latest SD	7 bytes	1st-5th byte: Hour, 6th-7th byte: Minute
12	Data on temperature for the third latest SD (TEMP1)	3 bytes	000 - 255
13	Fourth latest SD data	1 byte	0 - 5
14	Fourth latest SD subcategory data	1 byte	0 - 3
15	Data of hour meter for the fourth latest SD	7 bytes	1st-5th byte: Hour, 6th-7th byte: Minute
16	Data on temperature for the fourth latest SD (TEMP1)	3 bytes	000 - 255
17	Fifth latest SD data	1 byte	0 - 5
18	Fifth latest SD subcategory data	1 byte	0 - 3
19	Data of hour meter for the fifth latest SD	7 bytes	1st-5th byte: Hour, 6th-7th byte: Minute
20	Data on temperature for the fifth latest SD (TEMP1)	3 bytes	000 - 255
21	Sixth latest SD data	1 byte	0 - 5
22	Sixth latest SD subcategory data	1 byte	0 - 3
23	Data of hour meter for the sixth latest SD	7 bytes	1st-5th byte: Hour, 6th-7th byte: Minute
24	Data on temperature for the sixth latest SD (TEMP1)	3 bytes	000 - 255
25	Seventh latest SD data	1 byte	0 - 5
26	Seventh latest SD subcategory data	1 byte	0 - 3
27	Data of hour meter for the seventh latest SD	7 bytes	1st-5th byte: Hour, 6th-7th byte: Minute
28	Data on temperature for the seventh latest SD (TEMP1)	3 bytes	000 - 255
29	Eighth latest SD data	1 byte	0 - 5
30	Eighth latest SD subcategory data	1 byte	0 - 3
31	Data of hour meter for the eighth latest SD	7 bytes	1st-5th byte: Hour, 6th-7th byte: Minute
32	Data on temperature for the eighth latest SD (TEMP1)	3 bytes	000 - 255

Notes: • Ignore the 2-byte checksum at the end.
• For details, see "Description on shutdown".

• Description of shutdown

Data	Factors of shutdown
0	No abnormality
1	IC4
2	Module microcomputer IIC
3	Abnormality in RST2 (power decrease of DC-DC converter)
4	Panel having high temperature
5	Audio failure (speakers short-circuited)
6	Reservation
7	Reservation
8	Reservation
9	Reservation
Α	Reservation
В	Reservation
С	Reservation
D	Reservation
Е	Reservation
F	Reservation

• Module microcomputer IIC: Data on SD subcategory

	Frateward skytheren
Data	Factors of shutdown
0	No subcategory
1	EEPROM (DIGITAL VIDEO Assy: IC5206)
2	EEPROM (PANEL IF Assy : IC4002)
3	Volume IC
4	Reservation
5	Reservation
6	Reservation
7	Reservation
8	Reservation
9	Reservation
Α	Reservation
В	Reservation
С	Reservation
D	Reservation
Е	Reservation
F	Reservation

55

8

В

С

D

Ε

F

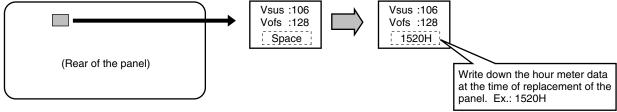
PDP-505PE

6.4 METHOD FOR REPLACING THE SERVICE PANEL ASSY

The following adjustments and operations are required when the Panel Assy is replaced for servicing.

■ Adjustments of the Vsus and Vofs voltages

Input the reference adjustment values that are described on the service panel for the Vsus and Vofs voltages, with the RS232C commands or on the Factory menu.

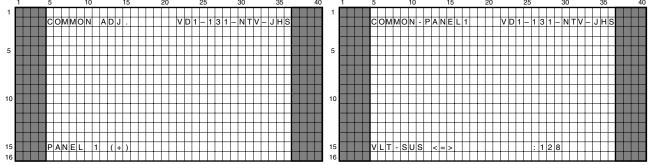


With the RS232C commands

Input the adjustment values described on the label attached on the rear of the panel:

- Reference adjustment of the Vsus voltage : [VSU***] Ex. : [VSU106]
 Reference adjustment of the Vofs voltage : [VOF***] Ex. : [VOF128]

On the Factory menu



Using the MUTE key, select the main item "COMMON ADJ." Select the subitem "PANEL 1" then "VLT-SUS" or "VLT-OFS," using the ▲ or ▼ key and SET key. Enter the value, using the ⋖ or ► key.

■ Clearing various logs for the panel, such as that for the hour meter

It is necessary to clear various logs, such as that for the hour meter, to match the driving hours of the panel before and after replacement. Write down the hour-meter data at the time of replacement of the panel on the label attached to the rear of the panel.

Notes: • For clearing, use the RS232C commands or the Factory menu.

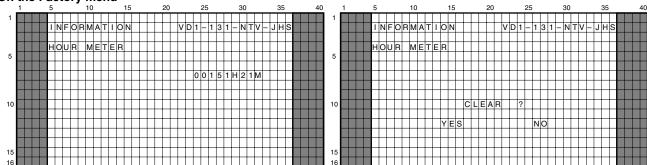
• There are two hour meters. Be careful not to mistake the MR hour meter for the hour meter for the panel.

With the RS232C commands

You can obtain the accumulated power-on time data of the product itself with the "GS2" RS232C command. (See "6.3 COMMANDS: Command description".)

1 For clearing the hour meter (for the panel): CHM 2 For clearing the pulse meter : CPM 3 For clearing the shutdown (SD) log : CSD 4 For clearing the power-down (PD) log : CPD

On the Factory menu



Using the MUTE key, select the main item "INFORMATION." Select the subitem "HOUR METER," using the ▲ or ▼ key and SET key. Clear the hour-meter data.

In the same way, select the subitem "PULSE METER," "PANEL SD," or "PANEL PD" under the main item "INFORMATION" then clear the data.

56

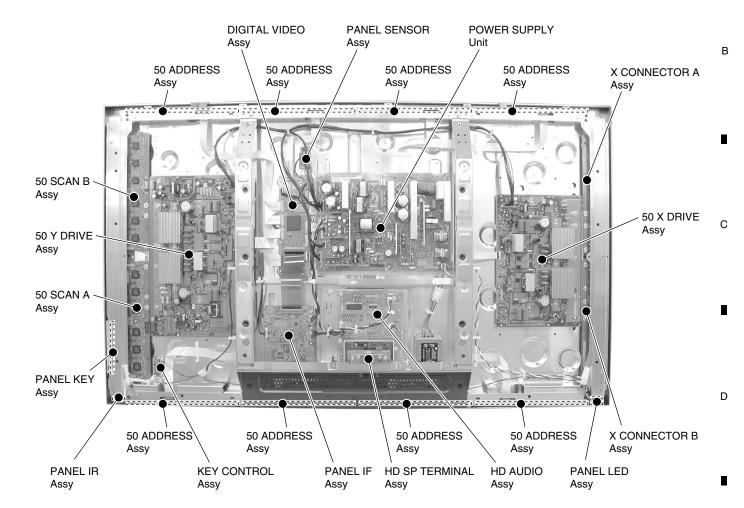
Ε

PDP-505PE

7. GENERAL INFORMATION

7.1 DIAGNOSIS

7.1.1 PCB LOCATION



● Rear view E

8

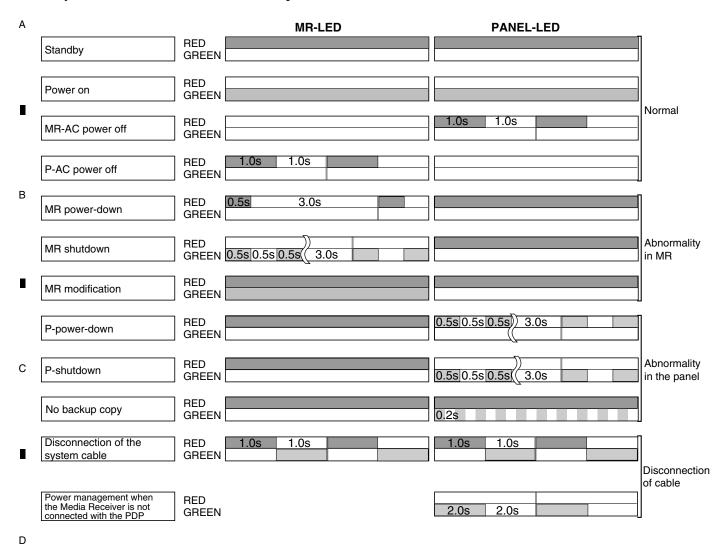
PDP-505PE

57

— 6

7.1.2 DIAGNOSIS OF SHUTDOWN/POWER-DOWN INDICATED BY LEDS

• Operation statuses indicated by LEDs



Note: "P" stands for panel.

: Lit in red

: Lit in green

: Not lit

58

Ε

PDP-505PE

• Identification of locations having abnormality by the number of times the LEDs flash

■ On Shutdown and power-down

Shutdown

- Operation: When the microcomputer detects any abnormality, it forcibly turns off the unit.
- LED indication: The green LED flashes.

Power-down

- Operation: When the unit is in emergency status, a protection circuit is activated, and the power is turned off.
- LED indication: The red LED flashes.

0.1	MR-	LED	PANE	L-LED	0		Warning indication
Category	STB	ON	STB	ON	Content	Unit's operation	when the MR is connected
	Lit			1 time	Communication failure of the panel-drive IC	Immediate shutdown	
	Lit			2 times	Communication failure of the module IIC	Immediate shutdown	
	Lit			3 times	Power decrease of the digital DC-DC converter	Immediate shutdown	
	Lit			4 times	Panel having high temperature	Shutdown 30 seconds after warning	Powering off. Internal temperature is too high. Check temperature around PDP. [SD04]
	Lit			5 times	Audio failure	Shutdown 3 seconds after warning	Powering off. Internal protection circuits turns power off. Is the speaker cable short-circuited ? [SD05]
		6 times	Lit		Communication failure of the module microcomputer	Immediate shutdown	Is there a short in speaker cable ?
SD		7 times	Lit		Main 3-wire serial communication in failure	Immediate shutdown	
		8 times	Lit		Communication failure of the main IIC	Immediate shutdown	
		9 times	Lit		Communication failure of the main microcomputer	Immediate shutdown	
		10 times	Lit		Fan in failure	Immediate shutdown	
		11 times	Lit		MR or unit having higher temperature	Shutdown 30 seconds after warning	Powering off. Internal temperature is too high. Check temperature around media receiver. [SD11]
		12 times	Lit		Communication failure of the digital tuner	Immediate shutdown	
		13 times	Lit		MR-ASIC power (DC-DC) in failure	Immediate shutdown	
	1 time		Lit		MR power supply	Immediate power-down	
	Lit		2 times		Panel-POWER SUPPLY	Immediate power-down	
	Lit		3 times		SCAN	Immediate power-down	
	Lit		4 times		SCAN-5V	Immediate power-down	
	Lit		5 times		Y-DRIVE	Immediate power-down	
	Lit		6 times		Y-DCDC	Immediate power-down	
PD	Lit		7 times		Y-SUS	Immediate power-down	
	Lit		8 times		ADDRESS	Immediate power-down	
	Lit		9 times		X-DRIVE	Immediate power-down	
	Lit		10 times		X-DCDC	Immediate power-down	
	Lit		11 times		X-SUS	Immediate power-down	
	Lit		12 times		DIGITAL-DCDC	Immediate power-down	
	Lit		13 times		IC4 *	Immediate power-down	
	Lit		15 times		UNKNOWN **	Immediate power-down	

^{*} If the power-down circuit for X-SUS/Y-SUS is activated because output of the drive waveform for IC4 is stopped, IC4-PD is displayed.

59

В

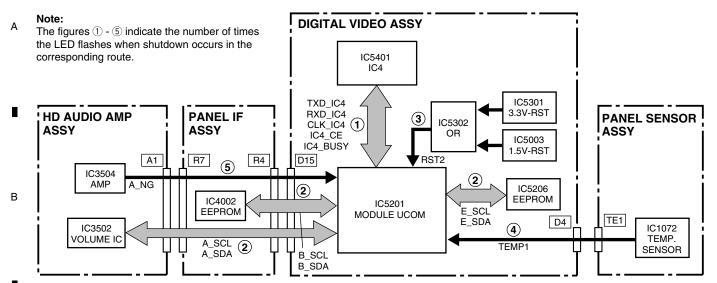
D

Ε

^{**} If the unit cannot identify which protection circuit was activated, even if a power-down had been detected, the red LED may flash 15 times.

• Block diagram of the shutdown signal system

2



3

• Diagnosis of shutdown

С

LED	SD Circuit in Operation	Defective Assy	Reason for Shutdown	Point to be Checked	Possible Defective Part	Remarks
			Communication failure of IC4	IC4 BLOCK, PANEL FLASH BLOCK	IC5401, IC5305	
1 time	Communication failure of the panel-drive IC	DIGITAL VIDEO	Writing failure of IC4			After turning the unit on again, check if the data on the version can be read with the GS1 command.
		DIGITAL VIDEO	Communication failure of the EEPROM (4K)	MODULE UCOM BLOCK	IC5206	
	Communication		Communication failure of the EEPROM (2K)	PANEL IF BLOCK	IC4002	
2 times	failure of the module IIC (Check the shutdown	PANEL IF	Disconnection of cable	CN4009 - CN3501		Check if the cable is disconnected or not securely connected.
	subcategory on the Factory menu.)		Defective 114-pin FPC	CN4004 - CN5001	ADY1081	Check if the 114-pin FPC is broken or not securely connected.
		HD AUDIO	Defective volume IC	HD AUDIO AMP Assy	IC3502	
	Power decrease of	DIGITAL VIDEO	Defective DC-DC converter	DIGITAL DD CON BLOCK	U5602	Check if 3.3 V and 1.5 V are activated.
3 times	DIGITAL-DC-DC		Defective RST IC	PANEL FLASH BLOCK	IC5301, IC5302, IC5303	
		POWER SUPPLY	No startup of 12 V			
			Cable disconnected	CN5202 - CN1071		
4 times	Panel having higher temperature	DIGITAL VIDEO	Panel having higher temperature	Surrounding temperature		Shutdown occurs when the sensor temperature becomes 74°C or more (PDP- 435PE) or 74°C or more (PDP-505PE).
			Speaker short-circuited	Speaker terminals		Check if the speaker cables are in contact with the chassis, etc.
5 times	Audio failure	HD AUDIO	Defective AMP IC	HD AUDIO AMP ASSY	IC3504	
		HD AUDIO	Disconnection of cable	CN4009 - CN3501		Check if the cable is disconnected or not securely connected.

60

Ε

PDP-505PE

2

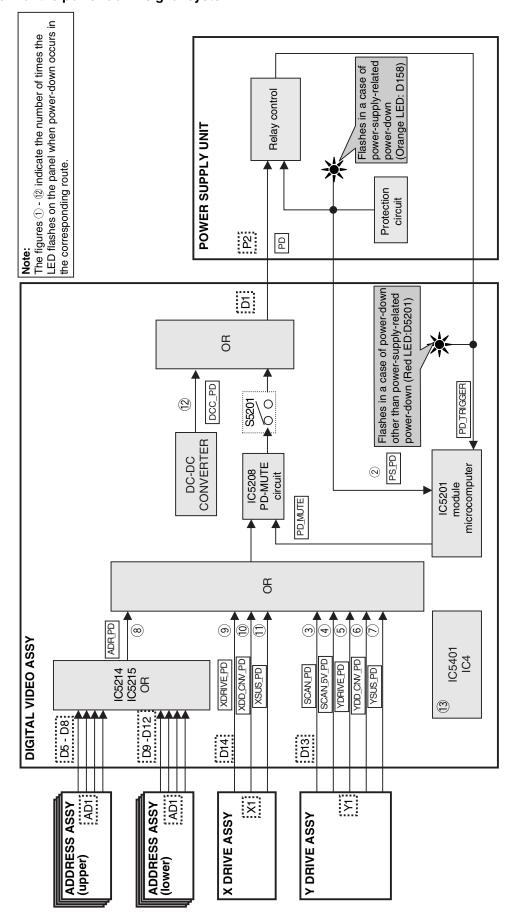
3

• Block diagram of the power-down signal system

6

5

5



7

8

В

С

D

Е

61

F

PDP-505PE

6

 Power-down 	diagnosis	(defective	noints)

2

3

1

Α

В

С

D

Ε

POWER SUPPLY Unit	$\overline{/}$	PD Circuit in operation	Defective Assy	Reason for Power-down	Point to be Checked	Possible Defective Part	Remarks
BOWER SUPPLY Unit SCAN IC C12203, IC1207 (mask module)	-	MR POWER					
50 X DRIVE Assy VSUS UVP X SUS BLOCK 50 Y DRIVE Assy VSUS UVP Y SUS BLOCK 50 X CANA, B Assy or Y 43 DRIVE Assy or Y 43 DRIVE Assy VH UVP VH DC/DC N-5V Or Y 43 DRIVE Assy or Y 43 DRIVE Assy VH UVP VH DC/DC N-5V Or Y 43 DRIVE Assy ICSV UVP SCAN IC, ICSV DC/DC RIVE 50 Y DRIVE Assy ICSV OVP ICSV DC/DC ICDC 50 Y DRIVE Assy VOFS UVP VOFS DC/DC ICDC VOFS UVP VOFS DC/DC ICSV OVP VOFS DC/DC ICSV DC/DC VOFS DC/DC ICSV DC/DC X SUS BLOCK ICSV DC/DC X SUS BLOCK ICSV DC/DC VRN UVP I	N		POWER SUPPLY Unit				If the elapsed time from relay-on until the LED in the power supply unit lights is about 2-4 seconds, the defective assembly may be the 50 X or Y DRIVE.
SO Y DRIVE Assy VSUS UVP SCANIC			50 X DRIVE Assy	VSUS UVP	X SUS BLOCK	IC1203, IC1207 (mask module)	
SO SCANA, B Assy			50 Y DRIVE Assy	VSUS UVP	Y SUS BLOCK	IC2303, IC2307 (mask module)	
10 20 SCANA, B ASSY		4		VH UVP	SCAN IC	SCAN IC	
VH OVP	က	NCAN	50 SCANA, B Assy	VH UVP	VH DC/DC	IC2401, IC2402, IC2410, L2401	
Disconnection of cable detected CN2001, CN2301			145 Dilly L Assy	VH OVP	VH DC/DC	IC2402, IC2410	
Disconnection of cable detected CNZ101, CNZ102, CNZ301				Disconnection of cable detected	CN2001, CN2301		
CSV UVP SCANIA, B ASSY ICSV UVP BLOCK				Disconnection of cable detected	CN2101, CN2102, CN2301		
ICSV OVP	4		50 SCANA, B Assy or Y 43 DRIVE Assy	IC5V UVP	SCAN IC, IC5V DC/DC Y SUS BLOCK	SCAN IC, Q2401, Q2402, IC2304,	
FIVE 50 Y DRIVE Assy 16.5V OCP VOFS DC/DC				IC5V OVP	IC5V DC/DC	IC2403, IC2411	
CDC 50 Y DRIVE Assy VOFS UVP VOFS DC/DC	Ŋ	Y-DRIVE	50 Y DRIVE Assy	+16.5V OCP	Y SUS BLOCK	IC2303, IC2307 (mask module), IC2301, IC2304, IC2305, R2332	
SO Y DRIVE ASSY	C	200	TVIOU X CO	VOFS UVP	VOFS DC/DC	IC2404, IC2412, Q2404, Q2407, Q2312	
US 50 Y DRIVE Assy detection of middle-point voltage Power-down caused by detection of able detected CN1501 Power-down caused by detection of a power surge Disconnection of cable detected CN1001, CN1201 RIIVE 50 X DRIVE Assy URN OCP VRN OCP X SUS BLOCK X SUS BLOC	0	7-DCDC	OU Y DRIVE ASSY	VOFS OVP	VOFS DC/DC	IC2404, IC2412	
So ADDRESS Assy Power-down caused by Po	2	Y-SUS	50 Y DRIVE Assy	Power-down caused by detection of middle-point voltage	Y RESONANCE BLOCK	Q2202, Q2203, Q2214, Q2205, Q2206, Q2208, Q2209, Q2212, IC2201, IC2202, D2201, D2201, D2220, D2230, Control signal series resistors	
Power-down caused by detection of a power surge detection of a power surge detection of a power surge bisconnection of a power surge bisconnection of cable detected CN1001, CN1201 H16.5V OCP X SUS BLOCK VRN OCP X SUS BLOCK VRN OVP VRN DC/DC X SUS BLOCK VRN UVP X SUS BLOCK X SUS BLOCK VRN UVP X SUS BLOCK X SUS BLOCK X SUS BLOCK A SUS BLOCK X SU		0	000	Disconnection of cable detected			
Pisconnection of cable detected CN1001, CN1201		ADRS	50 ADDRESS ASSY	Power-down caused by detection of a power surge	ADR RESONANCE BLOCK	R1631, Q1601, D1602	
HIVE 50 X DRIVE Assy				Disconnection of cable detected	CN1001, CN1201		
CDC VRN OCP X SUS BLOCK CDC VRN OVP VRN DC/DC VRN UVP X SUS BLOCK VRN UVP X BLOCK	6		50 X DRIVE Assy	+16.5V OCP	X SUS BLOCK	IC1203, IC1207 (mask module), IC1204, IC1206, R1230, IC1205	
CDC 50 X DRIVE Assy VRN UVP X SUS BLOCK X SUS DRIVE Assy detection of middle-point voltage X RESONANCE BLOCK DIGITAL VIDEO Assy ICA Drive STOP ICA BLOCK ICA				VRN OCP	X SUS BLOCK	Q1205, R1226, R1251	
CDC 50 X DRIVE Assy VRN UVP X SUS BLOCK X SUS BLOCK X SUS BLOCK A SO X DRIVE Assy detection of middle-point voltage A RESONANCE BLOCK DIGITAL VIDEO Assy ICA Drive STOP ICA BLOCK ICA BLOCK ICA Drive STOP ICA BLOCK				VRN OVP	VRN DC/DC	IC1403, IC1404	
US 50 X DRIVE Assy detection of middle-point voltage A RESONANCE BLOCK -DCDC DIGITAL VIDEO Assy ICA Drive STOP ICA BLOCK	10		50 X DRIVE Assy		VRN DC/DC	IC1402, IC1403, IC1404	
US 50 X DRIVE Assy detection of middle-point voltage X RESONANCE BLOCK detection of middle-point voltage X RESONANCE BLOCK				באס אוניא	X SUS BLOCK	Q1205, R1226, R1251	
DIGITAL VIDEO Assy IC4 Drive STOP IC4 BLOCK	=	X-sus	50 X DRIVE Assy	Power-down caused by detection of middle-point voltage	X RESONANCE BLOCK	Q1102, Q1103, Q1114, Q1105, Q1108, Q1109, Q1111, Q1112, IC1101, IC1102, D1103, D1113, D1118, D1125, D1129, D1130, Control signal series resistors	
DIGITAL VIDEO Assy LIC4 Drive STOP	12		DIGITAL VIDEO Assy	DCDC +3.3V, +1.5V OVP	DC DC CONVERTER BLOCK	U5602 (DC DC CONVERTER Module)	
	13	IC4	DIGITAL VIDEO Assy	IC4 Drive STOP	IC4 BLOCK	IC5401	

F

PDP-505PE

2

3

4

7.1.3 DIAGNOSIS WITH THE AID OF FACTORY MODE

Diagnosis with the aid of Factory mode

When the Media Receiver is connected, the power-down and shutdown logs can be referred to with OSD. Only the items useful when servicing the PDP-505PE/PRO-505PU are described here.

■ How to enter Factory mode using the remote control unit

Please refer to the technical documentation. (Service knowhow is the same as G4 PDP models.)

■ Power-down log (INFORMATION-PANEL PD)

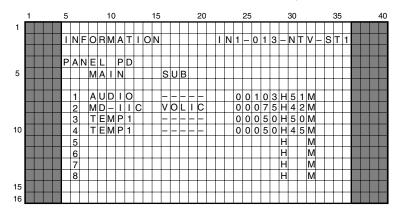
The last 8 power-down records are held, with the latest power-down displayed at the top. In the FIRST column, the location where the PD circuit was activated first (location indicated by flashing of the LED during power-down) is indicated, and in the SECOND column, the location where the PD circuit was activated second is indicated.

Note: There may not be a SECOND PD.

	1		5					10					15				20					25					30					35			_ 4	10
1			Г																														П	П	Т	1
			I	N	F	0	R	M	Α	Т	I	0	Ν						I	Ν	1	_	0	1	3	-	Ν	Т	٧	_	S	Т	1			
			Р	Α	N	Ε	L		Ρ	D																										
5						F	I	R	S	Т				S	Е	С	0	Ν	D																	
			L																																	
				1		Х	-	D	R	٧				_	1	-	-	-					0	0	5	2	3	Η	5	1	M					
				2		Υ	-	S	U	S				Υ	-	D	С	D	С				0	0	2	7	5	Н	4	2	M					
				3		S	С	Α	Ν					_	-	-	-	-					0	0	0	9	0	Τ	5	0	M					
10				4		Υ	-	D	С	D	С			_	1	-	-	-					0	0	0	4	3	Η	0	3	M					
				5		S	С	Ν	_	5	٧			_	_	-	-	-					0	0	0	0	2	Τ	3	1	M					
				6		Α	D	R	S					_	-	_	-	-					0	0	0	0	0	Τ	0	7	M					
				7																								Η			M					
				8																								Н			M					
15																																				
16																																				

■ Shutdown log (INFORMATION-PANEL SD)

The last 8 shutdown records are held, with the latest shutdown displayed at the top. If a shutdown occurred because of "MD-IIC" (communication failure of the module microcomputer IIC), the subcategory is indicated to inform you of with which device the microcomputer was in the process of communicating when a failure occurred.



[Data on MD-IIC subcategories]

5

OSD	Defective communication part
EROM4K	IC5206: Module microcomputer EEPROM
EROM2K	IC4002: EEPROM for backup
VOLIC	IC3502-Volume IC

63

8

В

С

D

Ε

■ Data on temperature (INFORMATION-TEMPERATURE)

The data on the current temperatures are displayed.

The temperature at the PANEL SENSOR ASSY of the PDP-505PE/PRO-505PU is indicated as the TEMP 1 value (000-255), which should be converted using the following formula:

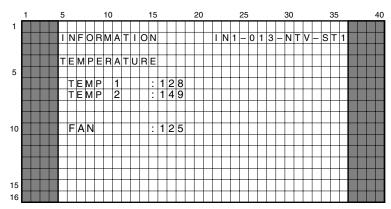
Current temperature (°C) = $0.65 \times TEMP \ 1 \ value - 52$

Note: Shutdown caused by high TEMP 1 value PDP-505PE: TEMP 1 value > 195 (≒ 74°C) PRO-505PU: TEMP 1 value > 195 (≒ 74°C)

В

С

Ε

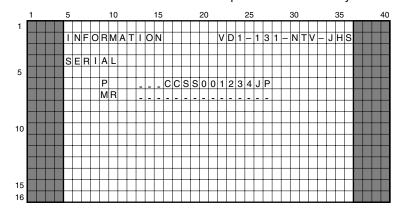


Note: To update the data on temperature, use the Left and Right keys on the remote control unit.

PDP-505PE

Reference: Serial-number information (INFORMATION-SERIAL)

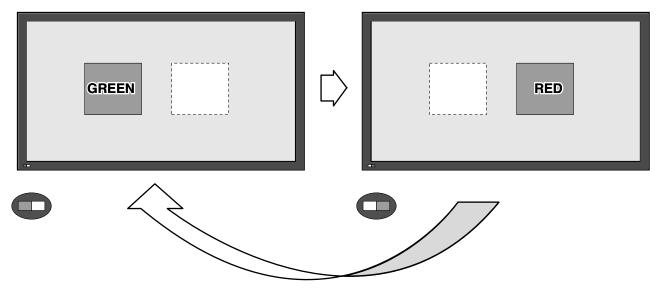
You can check the serial number of the product on the Factory menu.



7.1.4 OPERATION WHEN THE MEDIA RECEIVER IS NOT CONNECTED

As the connection conditions of the system cables (MDR cable, DVI cable) are usually detected, if no connection, such as cable disconnection, is detected, a warning indication (alternate flashing of the red and green areas) is displayed on the mask screen, and the red and green LEDs flash alternately. Then after about 30 seconds, the power is automatically turned off.

Note: Only when the power is turned on again, a warning indication on the mask screen restarts. During standby, only the red and green LEDs flash alternately.



Alternate flashing at intervals of about 1 second

To operate the panel without the Media Receiver, there are the following two ways:

1. Operation-without-the-Media-Receiver mode

Input the "SCN" RS232C command. The status of the LEDs changes to that in normal operation mode.

Note: Turning the AC switch to OFF then ON also maintains this mode. However, once the unit is connected with the Media Receiver using the MDR cable, this mode is automatically canceled.

2. DVI mode

Turn the unit on while DVI SG signals are being input with only the DVI connecter connected. After a warning is displayed for about 5 seconds, the unit is ready to display the screen of the input signal. (Green LED lit)

Notes: • Although the output from XGA (43 inch) and WXGA (50 inch) can be input to the unit, this is not a mode open to general users. (With some signals, errors such as power-down may occur.)

- If a DE signal from the SG is not input during DVI mode, the green LED flashes (at intervals of 2 sec) for about 8 seconds, then the unit shifts to Power Management mode (the green LED lights).
- Although the PC signal data are displayed for the PDP-504P series panels, for the PDP-505P series panels this is not possible, because the EDID-ROM has not been provided.

7.1.5 TEMPERATURE-COMPENSATION FUNCTION OF THE DRIVE-SYSTEM VOLTAGE

Function: To control the DRIVE-system voltage according to the temperature (Temperature compensation functions such that the voltage is lowered on the lower-temperature side and the voltage becomes higher on the higher-temperature side.)

Purpose: For improving the yield by compensating for the temperature characteristics of the panel

Note: Temperature compensation is performed only for the VSUS voltage, and not for the VOFS voltage. This compensation is controlled by the software.

65

8

В

С

D

Ε

7.1.6 POWER ON/OFF FUNCTION FOR THE LARGE-SIGNAL SYSTEM

Function: Only the power for the low voltage lines (16.5 V, 12 V, and 6.5 V) is on, and the power for the high voltage lines (VSUS, VADR) is off.

Usage: 1. Use when only an operational check for the low voltage lines is required, such as when making repairs.2. Use when rewriting of a program for each microcomputer is required.

Methods: 1 Set the slide switch (S5201) on the DIGITAL VIDEO Assy to its upper position (See Fig. below).

- 2. Send the "DRF" RS232C command to turn the large-signal system off.
- 3. Send the "DRN" RS232C command to turn the large-signal system on.

Notes:

- As the unit enters Power-Down and Muting On mode when Methods 1 and 2 are performed, and power-downs other than those caused by the power (PS_PD) and DC-DC-converter (DIGITAL_DC-DC) circuits are not activated.
- If the slide switch is set from OFF to ON while the power is on, a power-down will occur. Be sure to turn the power off before switching the slide switch.
- When using the RS232C commands, as with the slide switch, do not use the "DRN" command (DRIVE ON) while the power is on, although doing so will not cause a power-down.
- Although the "DRF" RS232C command is enabled during Standby, if the power is turned on then turned off, the unit will return to "DRN" mode.

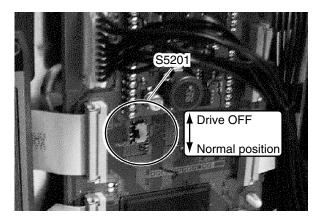


Fig. Drive OFF switch

7.1.7 BACKUP WHEN THE MAIN UNIT IS ADJUSTED

Outline

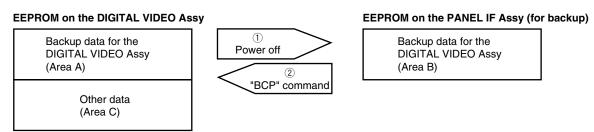
The data on the adjustment values for the main unit are stored in an EEPROM (IC5206, 4 kbits) on the DIGITAL VIDEO Assy. Part of the data (area A in the figure below) are automatically copied to an EEPROM (IC4002, 2 kbits) mounted on the PANEL IF Assy for backup. When the DIGITAL VIDEO Assy is replaced, the backup data on the adjustment values for the main unit stored in the PANEL IF Assy can be copied to the new DIGITAL VIDEO Assy, thus enabling you to omit newly performing adjustments on the main unit. The logs for the product (power-down log, etc.) can also be copied.

■ Data to be backed up in the digital EEPROM (area A)

- Margin adjustment values (Vsus, Vofset)
- Power upper-limit adjustment value (ABL)
- PANEL white-balance adjustment values (PANEL-R HIGH, PANEL-G HIGH, PANEL-B HIGH, PANEL-R LOW, PANEL-G LOW, PANEL-B LOW)
- Drive waveform adjustment values (X-SUS-U1, X-SUS-U2, X-SUS-D1, X-SUS-D2, Y-SUS-U1, Y-SUS-U2, Y-SUS-D1, Y-SUS-D2, Y-SUS-D3, Y-SUS-D4)
- · Pulse meter
- · Number of times the power has been turned on
- · PD/SD logs
- Serial Number

Basic flow of automatic backup

Using a keyword, the data in areas A and B are judged as to whether they have been adjusted or not, then copying is performed.

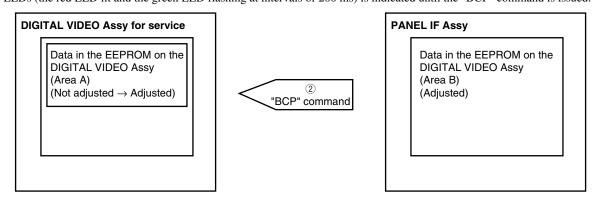


- ① The keyword on the DIGITAL VIDEO Assy is checked when the power is turned off, and if it is "adjusted", automatic backup is performed.
- ② If the keyword on the PANEL IF Assy (Area B) is "adjusted," copying can be performed with the "BCP" RS232C command."

Actual automatic backup operations by RS-232C command

1. When the DIGITAL VIDEO Assy is replaced with a new DIGITAL VIDEO Assy for service Changing of keywords is not required. Replace the DIGITAL VIDEO Assy with an Assy for service, and send the "BCP" RS232C command. Thus, the backup data in the EEPROM on the PANEL IF Assy are copied to the EEPROM on the DIGITAL VIDEO Assy for service.

Note: To remind you to send the "BCP" command after replacing the DIGITAL VIDEO Assy with one for service, a warning by the LEDs (the red LED lit and the green LED flashing at intervals of 200 ms) is indicated until the "BCP" command is issued.



2. When a repaired DIGITAL VIDEO Assy is mounted on another unit (reuse of the repaired DIGITAL VIDEO Assy) The keyword of the DIGITAL VIDEO Assy to be reused must be changed to "not adjusted" using the "UAJ" RS232C command.

Note 1: If a repaired DIGITAL VIDEO Assy is mounted in another unit (Unit 2) without this change of keyword, and the power to the unit 2 is turned off, the data in force before the repair of the DIGITAL VIDEO Assy will be copied to Area B of the PANEL IF Assy of Unit 2, overwriting the data necessary for Unit 2. Once overwritten, the original data will not be restored.

67

8

В

C

D

Ε

- 3. When a repaired DIGITAL VIDEO Assy is mounted on the original unit (reuse of the repaired DIGITAL VIDEO Assy) Changing of keywords is not required. After the repaired DIGITAL VIDEO Assy is mounted in the original unit, the unit can operate with its latest adjustment values.
- 4. When both the DIGITAL VIDEO Assy and PANEL IF Assy are simultaneously replaced with other assemblies. The automatic backup function of this unit will not work properly.
- Note 2: Readjustment of the main unit is required.
- Note 3: After readjustment of the main unit, send the "FAJ" RS232C command to change the keyword of the DIGITAL VIDEO Assy to "adjusted." Thus, when the unit is turned off, automatic backup of adjustment data is performed properly.
 - Note 4: If readjustment of the main unit is totally impossible, it can be omitted by installing the EEPROM (IC5206, 4 kbits) originally mounted on the DIGITAL VIDEO Assy for service.

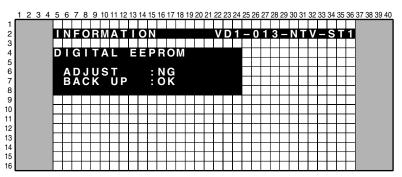
■ Automatic backup operations in Service/Factory mode

[Status confirmation]

В

Display the screen page shown below to check if the DIGITAL VIDEO Assy has been adjusted or a new service part might have been installed without adjustment being performed, and if the adjustment values have been stored in the backup ROM.

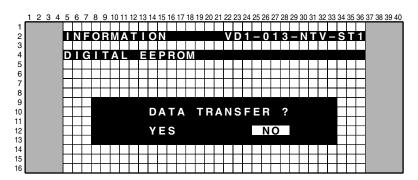
If the DIGITAL VIDEO Assy has not been adjusted (NG), the red LED lights, and the green LED flashes at intervals of 200 ms. In such a case, be sure to download the data from the backup ROM.



[Downloading the adjustment data from the backup ROM] (Required after the DIGITAL VIDEO Assy is replaced)

After the DIGITAL VIDEO Assy is replaced, enter Service/Factory mode to copy the data from the backup ROM. Display the screen page shown above after entering Service/Factory mode then press the Enter key. The indication below is displayed. Move the cursor to YES then press the Enter key to start copying the data from the backup ROM to the new DIGITAL VIDEO Assy.

Note: Be sure to perform this operation when the DIGITAL VIDEO Assy is replaced with a new service part.



68

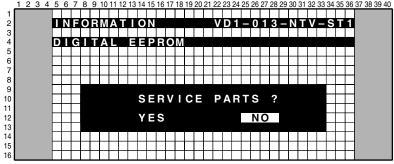
PDP-505PE

[Clearing the data in the ROM of the DIGITAL VIDEO Assy]

After either YES or NO is selected on the display shown above, the indication shown below is automatically displayed. Move the cursor to YES then press the Enter key. The data in the ROM of the DIGITAL VIDEO Assy become those for a service part (not adjusted).

Notes: • Use this operation after the DIGITAL VIDEO Assy in failure is repaired and is to be reused as a service part.

• In normal replacement of the Assy with a new service part, this operation is not required. Select NO after replacement with a service part.



When either YES or NO is selected on the above display, the display will automatically return to that for status confirmation shown above.

Miscellaneous

If the white balance (W/B) value is largely shifted because of aging, etc., W/B adjustment is required. (As this may be a rare case, the adjustment procedures are described below, just for your reference.)

[W/B-adjustment procedures]

The W/B adjustment can be performed with the RS232C commands with the Media Receiver not connected to this unit. The GGF1475 special communication tool and a Minolta CA-100 color difference meter are required.

- ① Enter Operation-without-the-Media-Receiver mode with the "SCN" RS232C command.
- ② Set the keyword for the DIGITAL VIDEO Assy to "not adjusted" with the "UAJ" RS232C command.
- 3 Obtain the current adjustment values in the two adjustment tables (see "6.3.1 RS232C commands").
 - Shifting to Table 1: Send the "M51" and "F60" commands. Obtaining the adjustment values: Send the "GPW" command.
 - Shifting to Table 2: Send the "M51" and "F75" commands. Obtaining the adjustment values: Send the "GPW" command.
- 4 Make settings for various functions.

Send the "PPN," "SDN," "SPN," and "WAY" commands.

Note: After adjustment, when the POWER switch is set to OFF, these settings will be reset to the initial values.

- 5 For each table, set the brightness.
 - Adjustment in Table 1: After sending the "F60" command, perform adjustment.
 - Adjustment in Table 2: After sending the "F75" command, perform adjustment.

For each table, change the RGB parameters so that the values measured using a Minolta color difference meter (CA-100) become as indicated below. In this case, any one of PRH, PGH, or PBH must be set to 256.

	Right side of Mask H	PRH***"	: 000 - 511
х	285	"PGH***"	: 000 - 511
V	289	"PBH***"	: 000 - 511

- 6 Check after adjustment
 - Shifting to Table 1: Send the "F60" command. Obtaining the adjustment values: Send the "GPW" command.
 - Shifting to Table 2: Send the "F75" command. Obtaining the adjustment values: Send the "GPW" command. Check that the adjustment data have been changed.
- ① Change the keyword for the DIGITAL VIDEO Assy to "adjusted" by sending the "FAJ" RS232C command.

Note: Use a Minolta CA-100 color difference meter or the equivalent for measurement. Otherwise, the specifications of the product cannot be assured.

Note: To cancel adjusted data and return to the values before adjustment, send the "BCP" RS232C command. Turn the AC power off then turn it back on before setting the unit to Standby OFF. The backup values are then retrieved.

69

В

С

D

Ε

2

Α

В

С

[Diagnosis of abnormalities other than shutdown and power-down]

Ε

Symptom	Defective Assy	Possible Cause	Check Point	Possible Defective Part	Remarks
No power (both red and green LEDs unlit)		Cable disconnection	CN4001		Check if the connection between the POWER SUPPLY and PANEL IF assemblies is properly made.
No power (green LED not lit)		Defective 114-pin FPC	CN4004 - CN5001	ADY1081	Check if the FPC is broken or not securely inserted.
The power is (sometimes) interrupted.		Defective system cables	CN4002, CN4003		Check if the system cables are securely connected. (See "7.1.4 Operation when the Media Receiver is not connected.")
The power is interrupted, and the red and green warning indications appear on the screen.		System cables not connected			Check connection of the system cables. (See "7.1.4 Operation when the Media Receiver is not connected.")
While the red LED remains lit, the green LED begins flashing (200 ms).		No backup copy			The backup copy process was not performed when the Digital Assy was replaced. (See "7.1.7 Backup when the main unit is adjusted".)
		Cable disconnection	CN4801 - CN4851	ADD1225	Check if the FPCs are properly connected. Check if imparting vibration to the unit affects key inputs. Check if a pulse is output when the key corresponding to Pin 2 of the CN4852 is pressed.
Key input not effective		Cable disconnection	CN4852 - CN4010		Check if the cables are disconnected or not securely connected. Check if a pulse is output when the key corresponding to Pin 8 of the CN4010 is pressed.
	KEY CONTROL	Defective KEY SCAN IC	KEY CONTROL Assy IC4851	IC4851	Check if a pulse is output when the key corresponding to Pin 2 of the CN4852 is pressed.
Demote control unit not officetive		Cable disconnection	CN4901 - CN4010		Check if the cables are not connected or securely connected.
	PANEL IR	Defective infrared receiver	PANEL IR	U4901	Check if a pulse is output when the key corresponding to Pin 3 of the CN4010 is pressed.
Abnormality in a one-eighth area of the	DIGITAL VIDEO	Defective IC4	IC4 BLOCK	IC5401	Check if an abnormal area in the screen changes when the FPC connected to the address corresponding to the abnormal area is replaced with the one corresponding to the next address.
screen	ADDRESS				Check that an abnormal area in the screen does not change when the FPC connected to the address corresponding to the abnormal area is replaced with the one corresponding to the next address.
Abnormal screen (Data of every other dot are abnormal)		Defective 114-pin FPC	CN4004 - CN5001	ADY1081	Check if the FPC is broken or not securely inserted.

70

2

PDP-505PE

1 Rear Case (50P) and Front Case Assy (50P)

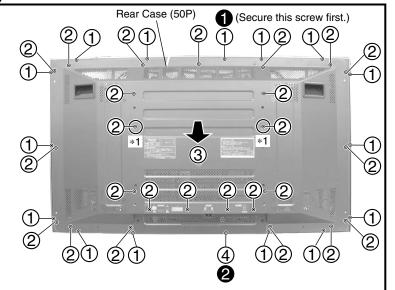
(1) Remove the 15 screws.

(2) Remove the 25 screws.

When reassembling, first secure the screws for these holes to position the Rear Case (50P) correctly.

- (3) Remove the Rear Case (50P).
- (4) Remove the screw.

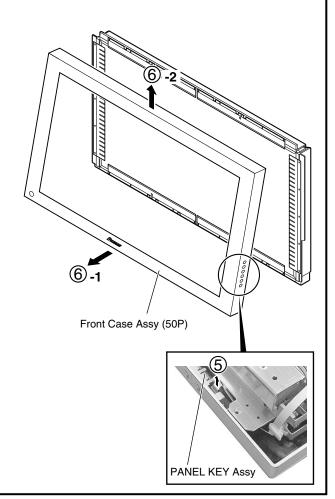
- When reassembling the Front Case Assy (50P) -Secure the screws in the order of 1 and 2. Then secure the screws on the upper side, the sides, then the lower side.



(5) Remove the flexible cable on the PANEL KEY Assy.

(6) Remove the Front Case Assy (50P).

Note: If you wish to remove only the Front Case Assy, you can remove it in the order of ①, ④, ⑤, and ⑥.



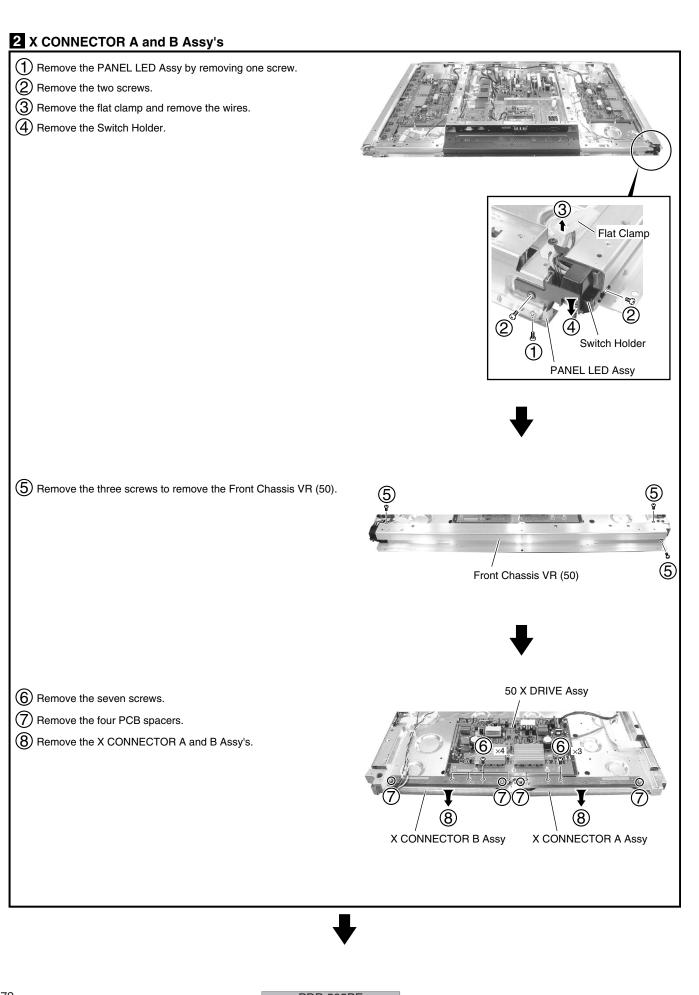


71

С

Ε

PDP-505PE



/

В

С

D

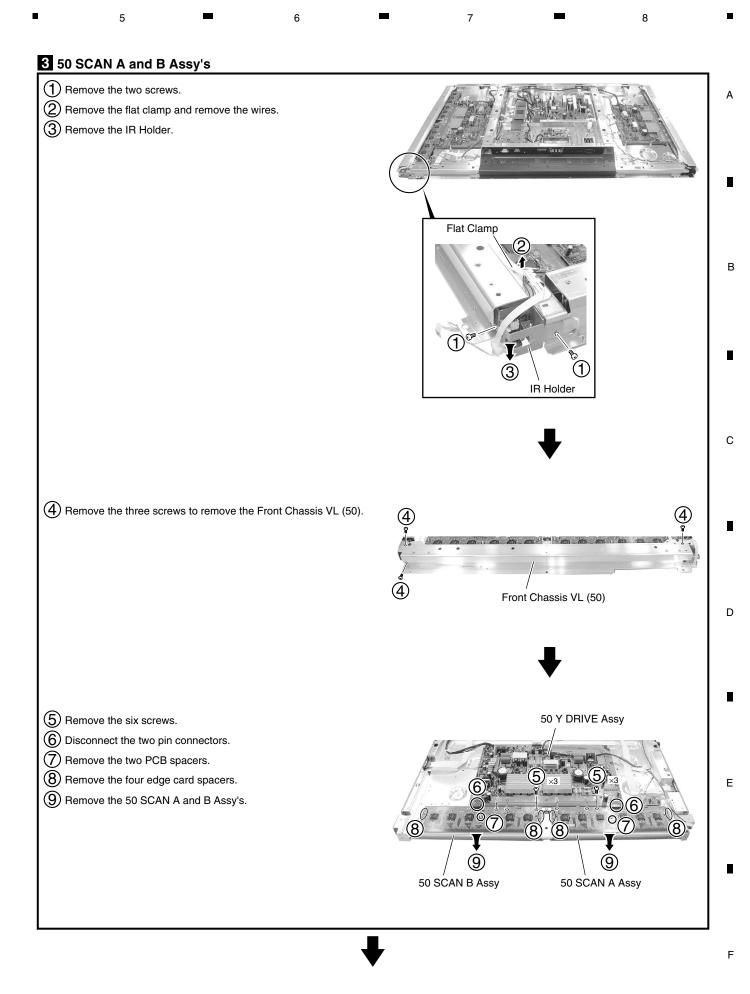
Ε

PDP-505PE

2

3

—



4 MULTI BASE SECTION

Note:

В

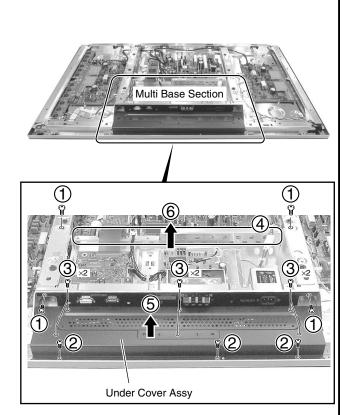
С

D

Ε

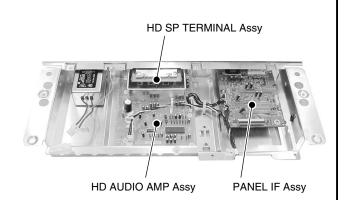
To access the Multi Base Section, only the Rear Case must be removed. No other parts need to be removed.

- 1 Remove the four screws.
- Remove the three screws.
- 3 Remove the six screws.
- 4 Disconnect the connectors.
- (5) Remove the Under Cover Assy.
- 6 Remove the Multi Base Section.



3





7/

PDP-505PE

3

7.2 IC INFORMATION

• The information shown in the list is basic information and may not correspond exactly to that shown in the schematic diagrams.

6

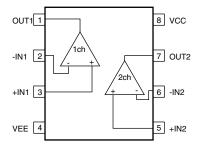
List of IC

BA10393F, BA10358F, BA8274F, NJM2195L, MBM29PL160BD-75PFTN, SII169CTG100, STK795-512A, STK795-513A, LA4625, M30622FHPGP, PEG054A, AN16021A-K

■ BA10393F (50 X DRIVE ASSY: IC1103) (50 Y DRIVE ASSY: IC2211)

Comparator IC

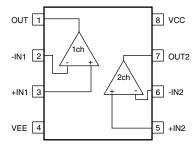
● Pin Arrangement (Top view) / Block Diagram



■ BA10358F (50 Y DRIVE ASSY: IC2406)

• OP-AMP IC

● Pin Arrangement (Top view) / Block Diagram



75

8

В

С

D

Ε

■ BA8274F (PANEL IF ASSY: IC4206) • I²C Bus Interface IC

Block Diagram

В

С

N.C. Vcc 8 6 5 Buffer 4 2 3 1 N.C. GND

3

• Pin Function

Pin No.	Pin Name	Equivalent Circuit	Pin Function
2 7	Lx Ly	Vcc	Buffer output
3 6	Sx Sy	Vcc 35.7 \$	Buffer input
4	GND	_	Ground
8	Vcc	_	Power supply

76

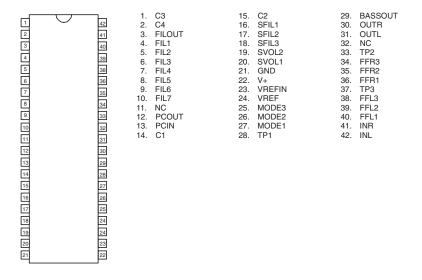
Е

■ NJM2195L (HD AUDIO AMP ASSY: IC3501)

• Focus and SRS IC

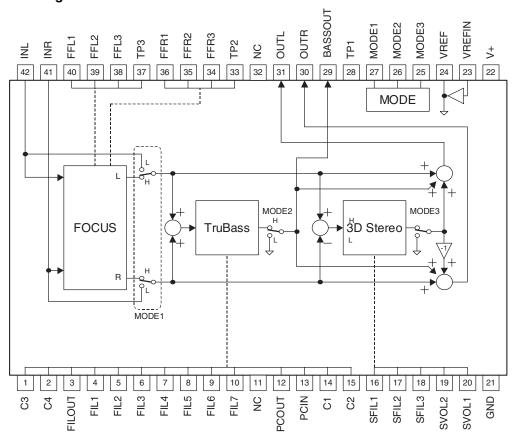
5

● Pin Arrangement (Top view)



6

Block Diagram



77

PDP-505PE

B. 600. E

5

8

F

Ε

В

С

D

В

SDIP42	No.	QFP48	Pin Name		Equivalent Circuit	
14	13	9	C1		V+ V	oV
15	14	10	C2		V+ V	oV
16 17 18	15 16 17	11 14 15	SFIL1 SFIL2 SFIL3		V+ V+ V+ W+	V+/2
19 2 5	18 2 5	16 44 47	SVOL2 C4 FIL2	WIDTH VR	V+ V+ V+	V+/2

PDP-505PE

3

Ε

• Pin Function

5

SDIP42	No.	QFP48	Pin Name		Equivalent Circuit	
21	20	18	GND	GND		0V
22	21	19	V+			V+
23	22	20	VREFIN		V+ V	V+/2
24 29 30 31 36 40 3	23 28 29 30 34 38 3	21 28 29 30 34 40 45	VREF BASSOUT OUTR OUTL FFR1 FFL1 FILOUT	TruBass Rch Lch	V+ V	V+/2
25 26 27	24 25 26	22 23 26	MODE3 MODE2 MODE1	3 2 1	V+ V+ V+ V+ V+	0V

79

8

В

С

D

Ε

PDP-505PE

7 -

● Pin Function						
	No.	1	Pin		Equivalent Circuit	
SDIP42	SOP40	QFP48	Name		quiraient enean	
28 35 39	27 33 37	27 33 39	TP1 FFR2 FFL2		V+ V+ V+ V+	V+/2
33 37	31 35	31 35	TP2 TP3		V+ -	
41 42	39 40	41 42	INR INL	Rch Lch	V+ V	V+/2
4	4	46	FIL1		V+ V	V+/2

F

Ε

В

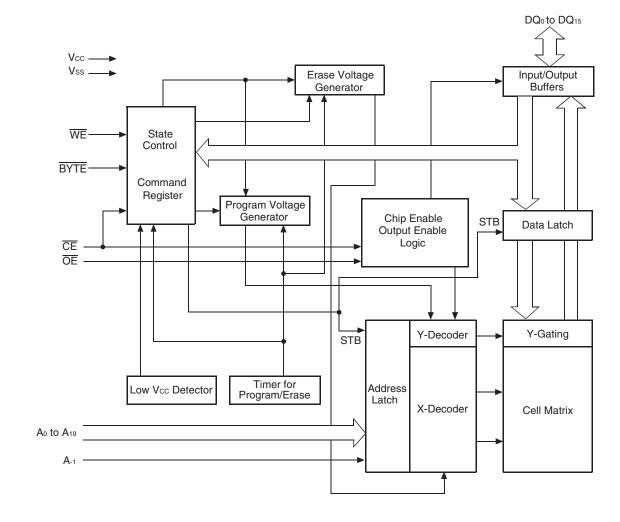
С

80 1 ■

• Flash Memory IC

5

Block Diagram



81

В

С

D

Ε

PDP-505PE

■ 6 ■

■ SII169CTG100 (PANEL IF ASSY: IC4202)

2

3

Receiver IC

Α

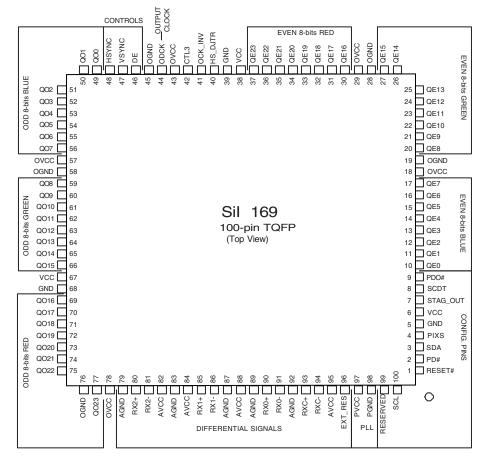
В

D

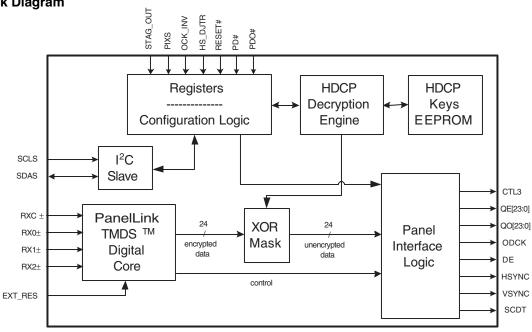
Ε

1

Pin Arrangement (Top view)



Block Diagram



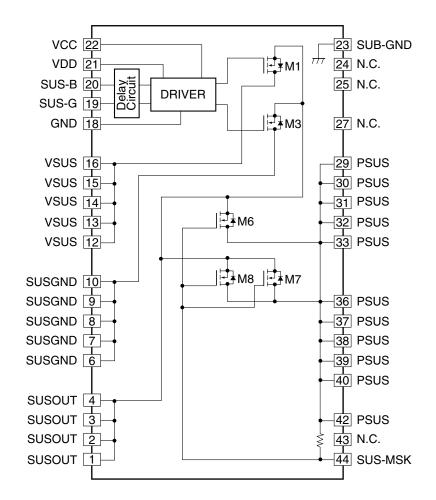
82

2

5

5

Block Diagram



7

83

В

С

D

Ε

F

PDP-505PE

■ STK795-513A (50 Y DRIVE ASSY: IC2303, IC2307)

2

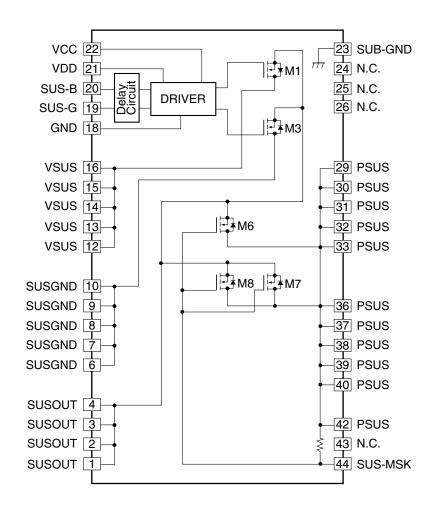
PDP Mask Module IC

Block Diagram

Α

В

С



3

84

Ε

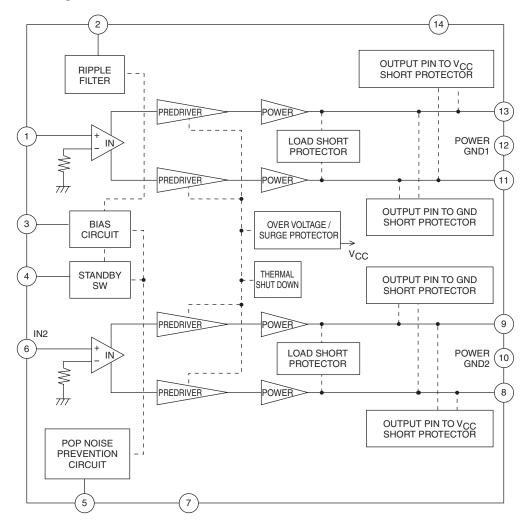
PDP-505PE

2

3

5

Block Diagram



85

В

С

D

Ε

PDP-505PE

8

■ M30622FH8PGP (DIGITAL VIDEO ASSY : IC5201)

• PDP UCOM • Pin Function (1/2)

No.	Pin Name	Function	1/0	ACTIVI
1	VSUS	[D/A] Vofs power control	0	
2	VOFS	[D/A] Vofs power control	0	
3	TXD_IC4	3 serial communication with IC4MANTA - data transmission	0	
4	RXD_IC4	3 serial communication with IC4MANTA - data receive	I	
5	CLK_IC4	3 serial communication with IC4MANTA - clock output	0	
6	BYTE	(GND connection)	I	
7	CNVSS	Pin for processor mode setting (pull-down)	l	
8	NC	NC pin		
9	NC	NC pin		
10	RST_MD	Reset input	I	L
11	XOUT	Output for main clock	0	<u> </u>
12	VSS	GND	_	_
13	XIN	Input for main clock	I	_
14	VCC1	Power supply = STB3.3V		_
15	NMI	(pull-up)	I	
16	REM_B	(Interruption) Remote control signal input (in the panel unit)	i	
17	KEY_B	(Interruption) Key signal input (in the panel unit)	<u> </u>	
18	RST2	(Interruption) IC4 reset detection	<u>.</u>	L
19	HD_IN_B	HD signal existence distinction	<u>'</u> 	L
20	PD_MUTE	Mute the power down output to the POWER SUPPLY Unit	0	L
21	PS_PD	PD signal in the POWER SUPPLY Unit	<u>U</u>	Н
22	DCC_PD	PD signal of DC-DC converter	<u>'</u> 	Н Н
23	NC	NC pin	<u>!</u>	+ ''
24	NC	•		
		NC pin		-
25 26	VD_IN	V. frequency count	0	L H
	EEPRST E_SCL	EEPROM power SW	0	
27		IIC clock output for EEPROM		+
28	E_SDA	IIC data I/O for EEPROM	1/0	
29	TXD	Communication with flash ROM writer - data transmission	0	
30	RXD	Communication with flash ROM writer - data receive	<u> </u>	
31	SCLK	Communication with flash ROM writer - clock input	<u> </u>	
32	BUSY	Communication with flash ROM writer - busy output	0	
33	TXD0	UART communication with main UCOM (external PC) - data transmission	0	
34	RXD0	UART communication with main UCOM (external PC) - data receive	ı	
35	NC	NC pin		
36	REQ_MD	Communication request to the main UCOM	0	Н
37	PSW_D	Mute of DC-DC converter	0	Н
38	WE_IC4	In IC4 (MANTA) rewriting, control for communication path switch	0	Н
39	EPM	Setting pin for flash rewriting mode (pull-down)	l	
40	IC4_RST	IC4 forced reset	0	L
41	IC4_CE	Enable for IC4 communication	0	L
42	IC4_BUSY	Busy input for IC4 communication	l	H
43	REQ_IC4	Communication request from the IC4	l	Н
44	CE	Setting pin for flash rewriting mode (pull-up)	I	
45	PSIZE	Panel size distinction	I	
46	B_SCL	IIC clock output for backup EEPROM	0	Н
47	B_SDA	IIC DATA I/O for backup EEPROM	I/O	Н
48	ADR_PD	PD signal of address junction	I	Н
49	LED_G	Green LED control	0	L
50	LED_R	Red LED control	0	L

■ M30622FH8PGP (DIGITAL VIDEO ASSY : IC5201)

• PDP UCOM • Pin Function (2/2)

No.	Pin Name	Function	I/O	ACTIVE
51	DRV_OFF	Driving OFF	0	Н
52	RELAY	Power ON control output	0	Н
53	POWER	Power ON control input	ı	Н
54	MR_ST_B	MDR connection detection	ı	L
55	OP_DET	Rear case open detection	ı	
56	NC	NC pin		
57	PNL_MUTE	Panel mute		
58	DITHER	PC/VIDEO dither switch (panel module exclusive use)		
59	NC	NC pin		
60	VCC2	Power supply = STB 3.3V	_	_
61	PD_TRG	PD detection		L
62	VSS	GND		+ -
63	VH_PD	Vh power decrease PD	1	Н
64	YDRV_PD	Y drive PD signal	i	H
65	YRES_PD	Y drive PD signal	<u> </u>	Н.
66	YDCDC_PD	PD signal of Y drive DC-DC converter		H H
67	IC5V_PD	5V power decrease PD		H H
68	XSUS_PD	X drive PD signal	<u> </u>	Н Н
69	XDCDC_PD	PD signal of X drive DC-DC converter	<u> </u>	H H
70	XDRV_PD	X drive PD signal	<u>'</u>	H ''
71	NC NC	NC pin	'	- ''
71 72	MR_AC	MR power monitor		Н
73	AC_DET	AC power monitor at panel side (same signal as CST1)	<u>-</u> -	<u> </u>
73 74	DVI_MUTE		0	
75	A_MUTE	Mute of panel link output Audio mute	0	H
75 76				
77	A_NG A_SCL	Audio NG detection	0	L L
	A_SDA	IIC clock output for audio/others IIC data I/O for audio/others	1/0	L
78 79	TRUBASS	TRUBASS ON/OFF	0	H
80			0	L
	STB_SW	Standby setting of audio amp.		
81	FOCUS	FOCUS ON/OFF	0	H
82	SRS	SRS ON/OFF	0	H
83	DDC_WP	DDCROM write protection	0	H
84	DVI_DET	DVI cable disconnection detection	<u>!</u>	H
85	RSTBTMDS	Reset detection of panel link receiver	<u> </u>	L
86	L_SYNC	DE omission detection of the panel link	ı	L
87	NC	NC pin		
88	NC NACY	NC pin		
89	MASK1	[A/D] Mask display setting	<u>!</u>	
90	MAX_PLS2	[A/D] Brightness setting for panel module	<u> </u>	
91	MAX_PLS1	[A/D] Brightness setting for panel module	<u> </u>	
92	TEMP	[A/D] AD input for temperature sensor	<u>!</u>	
93	MODE	[A/D] Operation mode setting	ı	
94	AVSS	GND for A/D input		
95	MODEL	[A/D] CMX/HD/TV/WX distinction	ı	
96	VREF	Reference voltage for A/D input	_	_
97	AVCC	Power supply for A/D input = STB3.3V	_	_
98	NC	NC pin		
99	NC	NC pin		
100	AMG_MD	Address emergency monitor	I	Н

87

В

С

D

Ε

■ PEG054A (DIGITAL VIDEO ASSY : IC5401) • PDP ASIC IC4

● Pin Function (1/10)

В

Ball No.	No.	Pin Name	Function
A1	1	BAI_6	A phase signal input of B video (sixth bit)
B1	2	BAI_5	A phase signal input of B video (fifth bit)
C1	3	BAI_4	A phase signal input of B video (fourth bit)
D1	4	NC	NC pin
E1	5	NC	NC pin
F1	6	BAI_3	A phase signal input of B video (fifth bit)
G1	7	BAI_2	A phase signal input of B video (fourth bit)
H1	8	FIELD	FIELD signal input
J1	9	XSUSB_12	X-Drive control signal output
K1	10	XSUSB_10	X-Drive control signal output
L1	11	XSUSB_4	X-Drive control signal output
M1	12	XSUSB_0	X-Drive control signal output
N1	13	XSUSA_10	X-Drive control signal output
P1	14	XSUSA_4	X-Drive control signal output
R1	15	XSUSA_2	X-Drive control signal output
T1	16	ADRS_0	Address control signal output
U1	17	AD6TXOUT3M	Address LVDS signal output
V1	18	AD6TXCLKOUTM	Address LVDS signal output
W1	19	AD6TXOUT2M	Address LVDS signal output
Y1	20	AD6TXOUT1M	Address LVDS signal output
AA1	21	AD6TXOUT0M	Address LVDS signal output
AB1	22	AD7TXOUT3M	Address LVDS signal output
AC1	23	AD7TXCLKOUTM	Address LVDS signal output
AD1	24	AD7TXOUT2M	Address LVDS signal output
AE1	25	AD7TXOUT1M	Address LVDS signal output
AF1	26	AD7TXOUT0M	Address LVDS signal output
AF2	27	AD7TXOUT0P	Address LVDS signal output
AF3	28	VSSLA	GND
AF4	29	AD3TXOUT3M	Address LVDS signal output
AF5	30	AD3TXCLKOUTM	Address LVDS signal output
AF6	31	AD3TXOUT2M	Address LVDS signal output
AF7	32	AD3TXOUT1M	Address LVDS signal output
AF8	33	AD3TXOUT0M	Address LVDS signal output
AF9	34	AD2TXOUT3M	Address LVDS signal output
AF10	35	AD2TXCLKOUTM	Address LVDS signal output
AF11	36	AD2TXOUT2M	Address LVDS signal output
AF12	37	AD2TXOUT1M	Address LVDS signal output
AF13	38	AD2TXOUT0M	Address LVDS signal output
AF14	39	AD1TXOUT3M	Address LVDS signal output
AF15	40	AD1TXCLKOUTM	Address LVDS signal output
AF16	41	AD1TXOUT2M	Address LVDS signal output
AF17	42	AD1TXOUT1M	Address LVDS signal output
AF18	43	AD1TXOUT0M	Address LVDS signal output
AF19	44	AD0TXOUT3M	Address LVDS signal output
AF20	45	AD0TXCLKOUTM	Address LVDS signal output
AF21	46	ADOTXOUT2M	Address LVDS signal output Address LVDS signal output
AF22	47	AD0TXOUT1M	Address LVDS signal output Address LVDS signal output
AF23	48	ADOTXOUTOM	Address LVDS signal output Address LVDS signal output
AF24	49	VSSL15	GND
AF25	50	AD4TXOUT3P	Address LVDS signal output

88

Е

● Pin Function (2/10)

5

5

Ball No.	No.	Pin Name	Function
AF26	51	AD4TXOUT3M	Address LVDS signal output
AE26	52	AD4TXCLKOUTM	Address LVDS signal output
AD26	53	AD4TXOUT2M	Address LVDS signal output
AC26	54	AD4TXOUT1M	Address LVDS signal output
AB26	55	AD4TXOUT0M	Address LVDS signal output
AA26	56	AD5TXOUT3M	Address LVDS signal output
Y26	57	AD5TXCLKOUTM	Address LVDS signal output
W26	58	AD5TXOUT2M	Address LVDS signal output
V26	59	AD5TXOUT1M	Address LVDS signal output
U26	60	AD5TXOUT0M	Address LVDS signal output
T26	61	SDIDBI_N	JTAG signal
R26	62	SDIJTAG	JTAG signal
P26	63	GPIO0_3	Microcomputer macro general-purpose port
N26	64	GPIO0_1	Microcomputer macro general-purpose port
M26	65	YSUSA_4	Y-Drive control signal output
L26	66	YSUSA_10	Y-Drive control signal output
K26	67	YSUSA_14	Y-Drive control signal output
J26	68	YSUSB_4	Y-Drive control signal output
H26	69	YSUSB_6	Y-Drive control signal output
G26	70	YSUSB_10	Y-Drive control signal output
F26	70	YSUSB_14	Y-Drive control signal output
	71	NC	• .
E26			NC pin
D26	73	NC CCAN 10	NC pin
C26	74	SCAN_10	Scan control signal output
B26	75	CSIOTXD	Communication with microcomputer
A26	76	CSRD_N	Communication with microcomputer
A25	77	CSCS_N0	Communication with microcomputer
A24	78	EXA16	Flash memory address bus
A23	79	EXA15	Flash memory address bus
A22	80	EXA14	Flash memory address bus
A21	81	EXA13	Flash memory address bus
A20	82	EXA12	Flash memory address bus
A19	83	EXA10	Flash memory address bus
A18	84	EXA7	Flash memory address bus
A17	85	EXA1	Flash memory address bus
A16	86	EXDIO_3	Flash memory data bus
A15	87	EXDIO_5	Flash memory data bus
A14	88	EXDIO_11	Flash memory data bus
A13	89	TRNSEND_O	NC pin
A12	90	RBI_5	B phase signal input of R video (fifth bit)
A11	91	RBI_0	B phase signal input of R video (0 bit)
A10	92	GBI_8	B phase signal input of G video (eighth bit)
A9	93	GBI_2	B phase signal input of G video (second bit)
A8	94	BBI_6	B phase signal input of B video (sixth bit)
A7	95	BBI_0	B phase signal input of B video (0 bit)
A6	96	VDI	VD signal input
A5	97	RAI_5	A phase signal input of R video (fifth bit)
A4	98	DCLKI	CLK input
A3	99	GAI_4	A phase signal input of G video (fourth bit)
A2	100	BAI_9	A phase signal input of B video (ninth bit)

89

В

С

D

Ε

■ PEG054A (DIGITAL VIDEO ASSY : IC5401) • PDP ASIC IC4

В

● Pin Function (3/10)

Ball No.	No.	Pin Name	Function
B2	101	BAI_8	A phase signal input of B video (eighth bit)
C2	102	BAI_7	A phase signal input of B video (seventh bit)
D2	103	GND	GND
E2	104	NC	NC
F2	105	NC	NC
G2	106	BAI_1	A phase signal input of B video (first bit)
H2	107	XSUSB_15	X-Drive control signal output
J2	108	GND	GND
K2	109	XSUSB_9	X-Drive control signal output
L2	110	XSUSB_3	X-Drive control signal output
M2	111	XSUSA_15	X-Drive control signal output
N2	112	XSUSA_9	X-Drive control signal output
P2	113	GND	GND
R2	114	XSUSA_1	X-Drive control signal output
T2	115	TEST2	Test signal input (Not used)
U2	116	AD6TXOUT3P	Address LVDS signal output
V2	117	AD6TXCLKOUTP	Address LVDS signal output
W2	118	AD6TXOUT2P	Address LVDS signal output
Y2	119	AD6TXOUT1P	Address LVDS signal output
AA2	120	AD6TXOUT0P	Address LVDS signal output
AB2	121	AD7TXOUT3P	Address LVDS signal output
AC2	122	AD7TXCLKOUTP	Address LVDS signal output
AD2	123	AD7TXOUT2P	Address LVDS signal output
AE2	124	AD7TXOUT1P	Address LVDS signal output
AE3	125	VSSLA	GND
AE4	126	AD3TXOUT3P	Address LVDS signal output
AE5	127	AD3TXCLKOUTP	Address LVDS signal output
AE6	128	AD3TXOUT2P	Address LVDS signal output
AE7	129	AD3TXOUT1P	Address LVDS signal output
AE8	130	AD3TXOUT0P	Address LVDS signal output
AE9	131	AD2TXOUT3P	Address LVDS signal output
AE10	132	AD2TXCLKOUTP	Address LVDS signal output
AE11	133	AD2TXOUT2P	Address LVDS signal output
AE12	134	AD2TXOUT1P	Address LVDS signal output
AE13	135	AD2TXOUT0P	Address LVDS signal output
AE14	136	AD1TXOUT3P	Address LVDS signal output
AE15	137	AD1TXCLKOUTP	Address LVDS signal output
AE16	138	AD1TXOUT2P	Address LVDS signal output
AE17	139	AD1TXOUT1P	Address LVDS signal output
AE18	140	AD1TXOUT0P	Address LVDS signal output
AE19	141	AD0TXOUT3P	Address LVDS signal output
AE20	142	AD0TXCLKOUTP	Address LVDS signal output
AE21	143	AD0TXOUT2P	Address LVDS signal output
AE22	144	AD0TXOUT1P	Address LVDS signal output
AE23	145	AD0TXOUT0P	Address LVDS signal output
AE24	146	VSSL15	GND
AE25	147	AD4TXCLKOUTP	Address LVDS signal output
AD25	148	AD4TXOUT2P	Address LVDS signal output
AC25	149	AD4TXOUT1P	Address LVDS signal output
AB25	150	AD4TXOUT0P	Address LVDS signal output

Е

● Pin Function (4/10)

5

Ball No.	No.	Pin Name	Function
AA25	151	AD5TXOUT3P	Address LVDS signal output
Y25	152	AD5TXCLKOUTP	Address LVDS signal output
W25	153	AD5TXOUT2P	Address LVDS signal output
V25	154	AD5TXOUT1P	Address LVDS signal output
U25	155	AD5TXOUT0P	Address LVDS signal output
T25	156	SDITRST_N	JTAG signal
R25	157	RESETX	Reset input
P25	158	GND	GND
N25	159	GPIO0_0	Microcomputer macro general-purpose port
M25	160	YSUSA_5	Y-Drive control signal output
L25	161	YSUSA_11	Y-Drive control signal output
K25	162	YSUSA_15	Y-Drive control signal output
J25	163	GND	GND
H25	164	YSUSB_7	Y-Drive control signal output
G25	165	YSUSB_11	Y-Drive control signal output
F25	166	NC _	NC pin
E25	167	NC	NC pin
D25	168	GND	GND
C25	169	SCAN_11	Scan control signal output
B25	170	CSIORXD	Communication with UCOM
B24	171	CSIOSCKI	Communication with UCOM
B23	172	UARTTXD	Communication with UCOM
B22	173	UARTRXD	Communication with UCOM
B21	174	CSWR_N0	Communication with UCOM
B20	175	GND	GND
B19	176	EXA9	Flash memory address bus
B18	177	EXA6	Flash memory address bus
B17	178	EXA0	Flash memory address bus
B16	179	GND	GND
B15	180	EXDIO_6	Flash memory data bus
B14	181	EXDIO_12	Flash memory data bus
B13	182	RBI_9	B phase signal input of R video (ninth bit)
B12	183	RBI_4	B phase signal input of R video (fourth bit)
B11	184	GND	GND
B10	185	GBI_7	B phase signal input of G video (seventh bit)
B9	186	GBI_1	B phase signal input of G video (first bit)
B8	187	BBI_5	B phase signal input of B video (fifth bit)
B7	188	GND	GND
B6	189	HDI	HD signal input
B5	190	RAI_4	A phase signal input of R video (fourth bit)
B4	191	GAI_9	A phase signal input of G video (ninth bit)
B3	192	GAI_3	A phase signal input of G video (third bit)
C3	193	GAI_2	A phase signal input of G video (second bit)
D3	194	VDDD33	3.3V power supply
E3	195	GAI_1	A phase signal input of G video (first bit)
F3	196	GAI_0	A phase signal input of G video (0 bit)
G3	197	NC	NC pin
H3	198	XSUSB_14	X-Drive control signal output
J3	199	VDDIO	3.3V power supply
K3	200	XSUSB_8	X-Drive control signal output
110			A Bitto oblitto oigha batpat

91

8

В

С

D

Ε

■ PEG054A (DIGITAL VIDEO ASSY : IC5401) • PDP ASIC IC4

В

● Pin Function (5/10)

Ball No.	No.	Pin Name	Function
L3	201	XSUSB_2	X-Drive control signal output
МЗ	202	XSUSA_14	X-Drive control signal output
N3	203	XSUSA_8	X-Drive control signal output
P3	204	VDDIO	3.3V power supply
R3	205	XSUSA_0	X-Drive control signal output
T3	206	TEST1	Test signal input (Not used)
U3	207	VSSLA	GND
V3	208	VSSLA	GND
W3	209	VSSLA	GND
Y3	210	VSSLA	GND
AA3	211	VSSLA	GND
AB3	212	VSSLA	GND
AC3	213	VSSLA	GND
AD3	214	VSSLA	GND
AD4	215	VSSLA	GND
AD5	216	VSSLA	GND
AD6	217	VSSLA	GND
AD7	218	VSSLA	GND
AD8	219	VSSLA	GND
AD9	220	VSSLA	GND
AD10	221	VSSLA	GND
AD11	222	VSSLA	GND
AD12	223	VSSLA	GND
AD13	224	VSSLA	GND
AD14	225	VSSLA	GND
AD15	226	VSSLA	GND
AD16	227	VSSLA	GND
AD17	228	VSSLA	GND
AD18	229	VSSLA	GND
AD19	230	VSSLA	GND
AD20	231	VSSLA	GND
AD21	232	VSSLA	GND
AD22	233	VSSLA	GND
AD23	234	VSSLA	GND
AD24	235	VSSLA	GND
AC24	236	VSSLA	GND
AB24	237	VSSLA	GND
AA24	238	VSSLA	GND
Y24	239	VSSLA	GND
W24	240	VSSLA	GND
V24	241	VSSLA	GND
U24	242	VSSLA	GND
T24	243	SDITDO	JTAG signal
R24	244	GPIO0_7	Microcomputer macro general-purpose port
P24	245	VDDIO	3.3V power supply
N24	246	YSUSA_0	Y-Drive control signal output
M24	247	YSUSA_6	Y-Drive control signal output
L24	248	YSUSA_12	Y-Drive control signal output
K24	249	YSUSB_0	Y-Drive control signal output
J24	250	VDDD33	3.3V power supply

Е

● Pin Function (6/10)

5

Ball No.	No.	Pin Name	Function
H24	251	YSUSB_8	Y-Drive control signal output
G24	252	NC	NC pin
F24	253	YSUSB_15	Y-Drive control signal output
E24	254	SCAN_3	Scan control signal output
D24	255	VDDD33	3.3V power supply
C24	256	SCAN_12	Scan control signal output
C23	257	SCAN_13	Scan control signal output
C22	258	SCAN_14	Scan control signal output
C21	259	SCAN_15	Scan control signal output
C20	260	VDDIO	3.3V power supply
C19	261	EXA8	Flash memory address bus
C18	262	EXA5	Flash memory address bus
C17	263	CLKD	CLK input (60MHz)
C16	264	VDDIO	3.3V power supply
C15	265	EXDIO_7	Flash memory data bus
C14	266	EXDIO_13	Flash memory data bus
C13	267	RBI_8	B phase signal input of R video (eighth bit)
C12	268	RBI_3	B phase signal input of R video (third bit)
C11	269	VDDIO	3.3V power supply
C10	270	GBI_6	B phase signal input of G video (sixth bit)
C9	271	GBI_0	B phase signal input of G video (0 bit)
C8	272	BBI_4	B phase signal input of B video (fourth bit)
C7	273	VDDIO	3.3V power supply
C6	274	RAI_9	A phase signal input of R video (ninth bit)
C5	275	RAI_3	A phase signal input of R video (third bit)
C4	276	GAI_8	A phase signal input of G video (eighth bit)
D4	277	GAI_7	A phase signal input of G video (seventh bit)
E4	278	GAI_6	A phase signal input of G video (sixth bit)
F4	279	GAI_5	A phase signal input of G video (fifth bit)
G4	280	VCMP	GND
H4	281	XSUSB_13	X-Drive control signal output
J4	282	XSUSB_11	X-Drive control signal output
K4	283	XSUSB_7	X-Drive control signal output
L4	284	XSUSB_1	X-Drive control signal output
M4	285	XSUSA_13	X-Drive control signal output
N4	286	XSUSA_7	X-Drive control signal output
P4	287	XSUSA_3	X-Drive control signal output
R4	288	ADRS_3	Address control signal output
T4	289	TESTAN	Test signal input (Not used)
U4	290	VDDLA	3.3V power supply
V4	291	VDDLA	3.3V power supply
W4	292	VDDLA	3.3V power supply
Y4	293	VDDLA	3.3V power supply
AA4	294	VDDLA	3.3V power supply
AB4	295	VDDLA	3.3V power supply
AC4	296	VDDLA	3.3V power supply
AC5	297	VDDLA	3.3V power supply
AC6	298	VDDLA	3.3V power supply
AC7	299	VDDLA	3.3V power supply
AC7	300	VDDLA	3.3V power supply
ACA	300	VUULA	o.ov power suppry

93

8

В

С

D

Ε

В

● Pin Function (7/10)

Ball No.	No.	Pin Name	Function
AC8	300	VDDLA	3.3V power supply
AC9	301	VDDLA	3.3V power supply
AC10	302	VDDLA	3.3V power supply
AC11	303	VDDLA	3.3V power supply
AC12	304	VDDLA	3.3V power supply
AC13	305	VDDLA	3.3V power supply
AC14	306	VDDBG	3.3V power supply
AC15	307	VDDLA	3.3V power supply
AC16	308	VDDLA	3.3V power supply
AC17	309	VDDLA	3.3V power supply
AC18	310	VDDLA	3.3V power supply
AC19	311	VDDLA	3.3V power supply
AC20	312	VDDLA	3.3V power supply
AC21	313	VDDLA	3.3V power supply
AC22	314	VDDLA	3.3V power supply
AC23	315	VDDLA	3.3V power supply
AB23	316	VDDLA	3.3V power supplyv
AA23	317	VDDLA	3.3V power supply
Y23	318	VDDLA	3.3V power supply
W23	319	VDDLA	3.3V power supply
V23 V23	320	VDDLA	3.3V power supply
U23	320	VDDLA	3.3V power supply 3.3V power supply
T23		SDITDI	
-	322		JTAG signal
R23	323	GPIO0_6	Microcomputer macro general-purpose port
P23	324	GPIO0_2	Microcomputer macro general-purpose port
N23	325	YSUSA_1	Y-Drive control signal output
M23	326	YSUSA_7	Y-Drive control signal output
L23	327	YSUSA_13	Y-Drive control signal output
K23	328	YSUSB_1	Y-Drive control signal output Y-Drive control signal output
J23	329	YSUSB_5	<u> </u>
H23	330	YSUSB_9 VCMP	Y-Drive control signal output
G23	331		GND
F23	332	SCAN_0	Scan control signal output
E23	333	SCAN_4	Scan control signal output
D23	334	SCAN_7	Scan control signal output
D22	335	SCAN_8	Scan control signal output
D21	336	SCAN_9	Scan control signal output
D20	337	EXA11	Flash memory address bus
D19	338	EXA19	Flash memory address bus
D18	339	EXA4	Flash memory address bus
D17	340	EXDIO_0	Flash memory data bus
D16	341	EXDIO_4	Flash memory data bus
D15	342	EXDIO_8	Flash memory data bus
D14	343	EXDIO_14	Flash memory data bus
D13	344	RBI_7	B phase signal input of R video (seventh bit)
D12	345	RBI_2	B phase signal input of R video (second bit)
D11	346	GBI_9	B phase signal input of G video (ninth bit)
D10	347	GBI_5	B phase signal input of G video (fifth bit)
D9	348	BBI_9	B phase signal input of B video (ninth bit)
D8	349	BBI_3	B phase signal input of B video (tenth bit)

Е

● Pin Function (8/10)

5

Ball No.	No.	Pin Name	Function
D7	350	DEI	DE signal input
D6	351	RAI_8	A phase signal input of R video (eighth bit)
D5	352	RAI_2	A phase signal input of R video (second bit)
E5	353	RAI_1	A phase signal input of R video (first bit)
F5	354	RAI_0	A phase signal input of R video (0 bit)
G5	355	BAI_0	A phase signal input of B video (0 bit)
H5	356	VSS15	GND
J5	357	VDDHR	3.3V power supply
K5	358	XSUSB_6	X-Drive control signal output
L5	359	VSSD15	GND
M5	360	XSUSA_12	X-Drive control signal output
N5	361	XSUSA_6	X-Drive control signal output
P5	362	VSS15	GND
R5	363	ADRS_2	Address control signal output
T5	364	TESTBN	Test signal input (Not used)
U5	365	VSSL15	GND
V5	366	VSSLA	GND
W5	367	VSSLA	GND
Y5	368	VSSL15	GND
AA5	369	VDDLP	3.3V power supply
AB5	370	VSSL15	GND
AB6	371	VSSLA	GND
AB7	372	VSSLA	GND
AB8	373	VSSL15	GND
AB9	374	VSSLA	GND
AB10	375	VSSLA	GND
AB11	376	VSSL15	GND
AB12	377	VSSLA	GND
AB13	378	VSSLA	GND
AB14	379	REFRIN	Reference current generation
AB15	380	VSSBG	GND
AB16	381	VSSL15	GND
AB17	382	VSSLA	GND
AB18	383	VSSLA	GND
AB19	384	VSSL15	GND
AB20	385	VSSLA	GND
AB21	386	VSSLA	GND
AB21	387	VSSLA	GND
AA22	388	VDDLA	3.3V power supply
Y22	389	VSSL15	GND
W22	390	VSSLA	GND
V22	391	VSSLA	GND
U22	392	VSSL15	GND
T22	393	SDITMS	JTAG signal
R22	394	GPIO0_5	Microcomputer macro general-purpose port
P22	395	VSS15	GND
N22	396	YSUSA_2	Y-Drive control signal output
M22	397	YSUSA_8	Y-Drive control signal output
L22	398	VSSD15	GND
K22	398	YSUSB_2	Y-Drive control signal output
NZZ	১ ৬৬	13U3D_2	וייים באווים אויים פיזוים אויים פיזוים פיזוי

95

8

В

С

D

Ε

1 2 3

■ PEG054A (DIGITAL VIDEO ASSY : IC5401)
• PDP ASIC IC4

● Pin Function (9/10)

В

Ball No.	No.	Pin Name	Function	
J22	400	VDDHL	3.3V power supply	
H22	401	VSSD15	GND	
G22	402	YSUSB_12	Y-Drive control signal output	
F22	403	SCAN_1	Scan control signal output	
E22	404	SCAN_5	Scan control signal output	
E21	405	SCAN_6	Scan control signal output	
E20	406	VSS15	GND	
E19	407	EXA18	Flash memory address bus	
E18	408	EXA3	Flash memory address bus	
E17	409	EXDIO_1	Flash memory data bus	
E16	410	VSS15	GND	
E15	411	EXDIO_9	Flash memory data bus	
E14	412	EXDIO_15	Flash memory data bus	
E13	413	RBI_6	B phase signal input of R video (sixth bit)	
E12	414	CLKS	CLK input (85MHz)	
E11	415	VSS15	GND	
E10	416	GBI_4	B phase signal input of G video (fourth bit)	
E8	418	BBI_2	B phase signal input of B video (second bit)	
E9	417	BBI_8	B phase signal input of B video (eighth bit)	
E7	419	VSS15	GND	
E6	420	RAI_7	A phase signal input of R video (seventh bit)	
F6	421	RAI_6	A phase signal input of R video (sixth bit)	
G6	422	APL_DT	APL value trigger input	
H6	423	VDD15	1.5V power supply	
J6	424	VBB	VBB power monitor in the DRAM	
K6	425	XSUSB_5	X-Drive control signal output	
L6	426	VDDD15	1.5V power supply	
M6	427	XSUSA_11	X-Drive control signal output	
N6	428	XSUSA_5	X-Drive control signal output X-Drive control signal output	
P6	429	VDD15	1.5V power supply	
R6	430	ADRS_1	Address control signal output	
T6	431	TESTCN	Test signal input (Not used)	
U6	432	VDDL15	1.5V power supply	
V6	433	VDDLIS	3.3V power supply	
W6	434	VDDLA	3.3V power supply 3.3V power supply	
Y6	435	VDDL15	1.5V power supply	
AA6	436	VDDL13	3.3V power supply	
AA7	437	VDDLA	3.3V power supply 3.3V power supply	
AA7	437	VDDLA VDDL15	1.5V power supply	
AA9	439	VDDL13	3.3V power supply	
AA9 AA10	440	VDDLA	3.3V power supply 3.3V power supply	
		VDDLA VDDL15	1.5V power supply	
AA11	441 442		1 117	
AA12		VDDLA	3.3V power supply	
AA13	443	VDDLA	3.3V power supply	
AA14	444	VDDLA	3.3V power supply	
AA15	445	VDDLA	3.3V power supply	
AA16	446	VDDL15	1.5V power supply	
AA17	447	VDDLA	3.3V power supply	
AA18	448	VDDLA	3.3V power supply	
AA19	449	VDDL15	1.5V power supply	

96

Е

PDP-505PE

2

=

● Pin Function (10/10)

Ball No.	No.	Pin Name	Function
AA20	450	VDDLA	3.3V power supply
AA21	451	VDDLA	3.3V power supply
Y21	452	VDDL15	1.5V power supply
W21	453	VDDLA	3.3V power supply
V21	454	VDDLA	3.3V power supply
U21	455	VDDL15	1.5V power supply
T21	456	SDITCK	JTAG signal
R21	457	GPIO0_4	Microcomputer macro general-purpose port
P21	458	VDD15	1.5V power supply
N21	459	YSUSA_3	Y-Drive control signal output
M21	460	YSUSA_9	Y-Drive control signal output
L21	461	VDDD15	1.5V power supply
K21	462	YSUSB_3	Y-Drive control signal output
J21	463	VBB	VBB power monitor in the DRAM
H21	464	VDDD15	1.5V power supply
G21	465	YSUSB_13	Y-Drive control signal output
F21	466	SCAN_2	Scan control signal output
F20	467	VDD15	1.5V power supply
F19	468	EXA17	Flash memory address bus
F18	469	EXA2	Flash memory address bus
F17	470	EXDIO_2	Flash memory data bus
F16	471	VDD15	1.5V power supply
F15	472	EXDIO_10	Flash memory data bus
F14	473	TRNSEND_I	NC pin
F13	474	VDD15	1.5V power supply
F12	475	RBI_1	B phase signal input of R video (first bit)
F11	476	VDD15	1.5V power supply
F10	477	GBI_3	B phase signal input of G video (third bit)
F9	478	BBI_7	B phase signal input of B video (seventh bit)
F8	479	BBI_1	B phase signal input of B video (first bit)
F7	480	VDD15	1.5V power supply

97

В

С

D

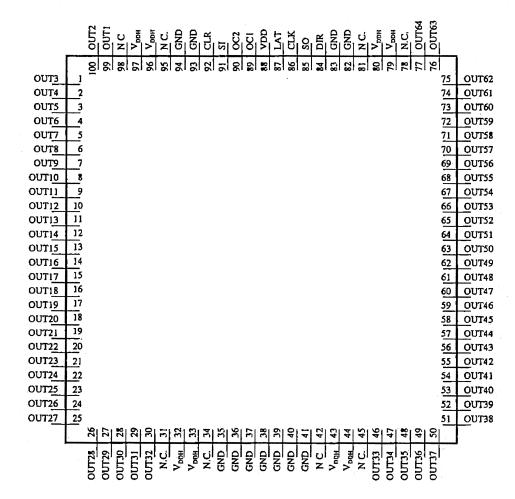
Ε

■ AN16021A-K (50 SCAN A ASSY : IC3001 - IC3006) (50 SCAN B ASSY : IC3201 - IC3206)

Mod Ucom

В

Pin Arrangement (Top view)



3

98

Ε

● Pin Function (1/2)

5

Pin No.	Pin Name	Туре	Discription	
1	OUT3			
2	OUT4			
3	OUT5			
4	OUT6			
5	OUT7			
6	OUT8			
7	OUT9			
8	OUT10			
9	OUT11			
10	OUT12			
11	OUT13			
12	OUT14			
13	OUT15			
14	OUT16			
15	OUT17	Output	High-voltage push-pull output pin	
16	OUT18	Output	r light-voltage pusht-pull output pill	
17	OUT19			
18	OUT20	-		
19	OUT21	-		
20	OUT21	1		
21	OUT23	-		
22	OUT24			
23	OUT25	-		
24				
	OUT26			
25	OUT27			
26	OUT28			
27	OUT29			
28	OUT30			
29	OUT31			
30	OUT32		Net compared d	
31	NC	-	Not connected	
32	VDDH	Supply	High-voltage circuit supply pin	
33	VDDH	Supply	High-voltage circuit supply pin	
34	NC	-	Not connected	
35	GND			
36	GND			
37	GND			
38	GND	Ground	GND pin	
39	GND			
40	GND			
41	GND		Netermented	
42	NC	-	Not connected	
43	VDDH	Supply	High-voltage circuit supply pin	
44	VDDH	Supply	High-voltage circuit supply pin	
45	NC	-	Not connected	
46	OUT33			
47	OUT34			
48	OUT35			
49	OUT36			
50	OUT37			
51	OUT38			
52	OUT39	Output	High-voltage push-pull output pin	
53	OUT40			
54	OUT41			
55	OUT42			
56	OUT43			
57	OUT44			
58	OUT45			1

99

3

● Pin Function (2/2)

В

С

[Pin No.	Pin Name	Туре	Discription				
ı	59	OUT46	71	P • • • • • • • • • • • • • • • • • • •				
	60	OUT47	-					
	61	OUT48						
	62	OUT49						
	63	OUT50						
ı	64	OUT51						
ı	65	OUT52						
ı	66	OUT53						
ı	67	OUT54	Output	High-voltage push-pull output pin				
	68	OUT55						
	69	OUT56						
	70	OUT57						
	71	OUT58						
	72	OUT59						
	73	OUT60						
	74	OUT61						
ı	75	OUT62						
	76	OUT63						
	77	OUT64						
	78	NC	-	Not connected				
	79	DDDH	Supply	High-voltage circuit supply pin				
	80	DDDH	Supply	High-voltage circuit supply pin				
	81	NC	-	Not connected				
	82	GND	Ground	GND pin				
	83	GND	Ground	GND pin				
				Setup pin of sift register sift direction				
	84	DIR	Input	L: Shift into reverse (SO → SI)				
				H: Shift forward (SI → SO)				
	85	SO	Input	Serial data input/output pin				
ŀ	- 00	30	50 mpat					
	86	CLK	Input	Serial clock input pin				
			-	Fetch SI or SO data to sift register by CLK rise edge				
				LAT data input pin				
	87	LAT	Input	L: Transfer shft register data to output latch				
				H: Hold data to output latch				
	88	VDD	Supply	Logic supply pin				
				35				
					OC1 OC2 OUT			
	89	OC1		Output control pin	L L ALL Hi-Z			
			Input	Control output according to the right truth value table	L H DATA			
					H L ALLL			
	90	OC2			H H ALL H			
	91	SI	SI	Input/OutputSerial data input/output pin				
	اق	JI	JI					
	92	CLR		All output reset pin				
		-		CLR pin: L → Normal operation				
				CLR pin: H → All output High				
	93	GND	Ground	GND pin				
	94	GND	Ground	GND pin				
	95	NC		Not connected				
	96	VDDH	Supply	High-voltage circuit supply pin				
	97	VDDH	Supply	High-voltage circuit supply pin				
	98	NC	-	Not connected				
	99	OUT1	Output	High-voltage push-pull output pin				
l	100	OUT2	Output	High-voltage push-pull output pin				

100

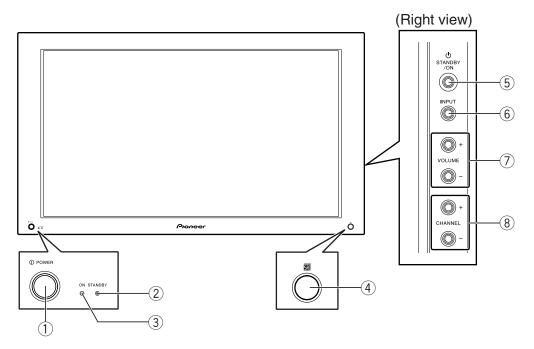
Ε

PDP-505PE

8. PANEL FACILITIES

■ PLASMA DISPLAY

• Front view



- 1 POWER button
- 2 STANDBY indicator
- 3 POWER ON indicator
- 4 Remote control sensor

- **5** STANDBY/ON button
- 6 INPUT button
- 7 VOLUME +/- buttons
- 8 CHANNEL +/- buttons

101

В

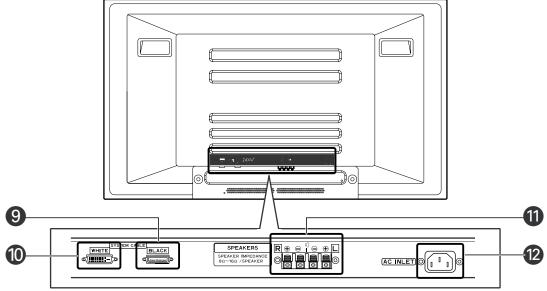
С

D

Ε

• Rear view

В



The terminals are facing down.

- 9 SYSTEM CABLE terminal (BLACK)
- SYSTEM CABLE terminal (WHITE)
- SPEAKER (right/left) terminals
- AC INLET terminal

102

Е